80



ESTABLISHED 1859.

CHIEF OFFICES: 42 CANNON STREET, LONDON, E.C. BRANCH OFFICES 231 ELIZABETH STREET, MELBOURNE, VICTORIA, AND EMPIRE CHAMBERS, YORK STREET, SYDNEY, N.S.W.

A weekly journal, supplied from the chief office in London to subscribers and persons connected with the trade only. Subscription, 10s. per year, payable in advance, including a copy of the DIARY next published, and postage to any country in the world. Single copies, 4d. each. Cheques and Postal Orders should be made payable to "EDWARD HALSE," and crossed "MARTIN'S BANK (LIMITED)."

#### As an Official Journal

THE CHEMIST AND DRUGGIST is supplied regularly to every member of the following Societies: - PHARMACEUTICAL SOCIETY OF IRELAND, SOUTH AFRICAN PHARMACEUTICAL ASSOCIATION, OTAGO PHARMACEUTICAL Association, Pharmaceutical Society of Queensland, Pharmaceutical Society of South Australia, Pharmaceutical Society OF WESTERN AUSTRALIA, and TASMANIAN PHARMACEUTICAL SOCIETY.

#### CONTENTS: Vol. XLV. No. 8.

P	AGE	P	AGE
Bankruptcies and Failures	308	Legal Reports (cont.) :-	
Business Changes		Alleged Adulterated Ginger	308
Correspondence		Croton-oil Pills for Castor-oil	
Counter-irritation		Pills	308
		Marriages	311
Dispensing Notes		Miscellaneons Inquiries	
Editorial Comments :-		More New Remedies	311
The Nitrogenic Mystery	318	Neatsfoot Oil. By E. J. Parry,	
	319	B.Sc	322
Inventions in Pharmacy	320	New Companies and Company	
	320	News	310
	321	Patience and Patients	307
	304	Personalities	311
	307		323
French Pharmaceutical News	306		323
Gazette	309		306
In a French Hospital	314		312
Insecticides and Fungicides	313		313
	331		317
Legal Reports :—		= mad industry	325
Herb-beer as a Beverage	308	Wills of Deceased Chemists	324

#### THE EDUCATIONAL NUMBER

of THE CHEMIST AND DRUGGIST for 1894 will be published on September 15, and will contain full details of the pharmaceutical, medical, dentist's, veterinary, and scientific curricula and examinations. Prospectuses of schools, &c., for that number should be sent in promptly.

#### POST CARD COMPETITION.

#### AUGUST.

THE best description (with or without drawings) of some advantageous tool, appliance, or fitting, for the dispensing counter. Preference given to something not generally known, but articles not to be disqualified if not absolutely new

All subscribers, their assistants or families may compete, and answers (must be on post cards) will be received up to August 31, 1894. We may add that we shall interpret the terms of the offer freely. Almost any wrinkle which facilitates work at the dispensing counter will be eligible.

#### Summary.

An interesting record of an experience in a Paris hospital is given on pp. 314-317.

MATRIMONY again seems popular among chemists. Eix events are recorded (p. 311).

SOME comments on the stronger position of the quininemarket will be found on p. 319.

THE new gas obtained by Lord Rayleigh and Professor Ramsay from the atmosphere has been the subject of further discussion, and the opinion is growing that it is an allotropic form of nitrogen (p. 318).

THE Ontario Agricultural College have recently published a list of formulæ for mixtures for destroying insects and fungi which infest plants. We publish a few of the most useful of these for the benefit of agricultural chemists (p. 313).

Two shopkeepers of Liverpool allege that they accepted agencies for stramonium cigarettes, and bought and paid for a quantity of these on false representations. The person charged with the fraud has been committed for trial (p. 304).

On p. 320 will be found an Editorial note on Oleum Limonis giving some hints on the precautions necessary in the storage and keeping of the oil, to avoid decomposition. The best tests to detect adulteration with turpentine are also

SEVERAL more reports on the Fertilisers and Feeding-stuffs Act are published. So far the Act seems to have been a dead letter, but the Kent analyst says it will be of enormous value to farmers when they learn to put it into force (p. 304).

SOME useful hints on the management of the hair, together with formulæ of preparations for preventing and curing the common ailments of the head, appear on p. 313. They are based on the recommendation of a leading physician in this department.

THE third of the series of catastrophes in the pharmacy described under the title of "Counter Irritation" appears on p. 312. Another pharmaceutical irreverence, this one quoted from an American writer, appears on the same page in the form of a paper on "The Latest Pepsin."

MESSRS. JAMES AND ARTHUR BIDWELL, at one time well known in the trade as brushmakers, were some time since convicted of stealing two hair-brushes, the charge arising out of the transfer of the business which was once theirs. The Home Secretary has now quashed the conviction (p. 305).

Two bankrupt chemists apply for their discharge, one at Appleby, one at Oxford. The allegations against each are very similar, the substantial complaint of the Official Receiver in each case being that the debtor had traded after knowing he was insolvent. The Oxford bankrupt's discharge was suspended for ten days, and the Appleby one's for eighteen months (p. 308).

MR. BRUNKER, for several years President of the Irish Pharmaceutical Council, sends us a short letter criticising the action of the Council in relation to limited companies and pharmacy; a Peripatetic Pharmacist contributes some interesting remarks on the alkali trade in the United States as the new taiff is likely to affect it; and a "Hampshire" chemist, grateful for the benefits he has derived from this journal, favours us in return with a nice little collection of his own successful formulæ (p. 329).

FOR selling as castor-oil pills some pills containing croton oil, but no castor oil, a shopkeeper at Bradford has been fined under the Sale of Food and Drugs Act. Some cheap ginger, about which a prosecution had been commenced in Yorkshire, was tested at Somerset House, and though a certain amount of sand was found in it, the Inland Revenue chemists thought this might not be more than might be present if unwashed ginger were ground. The Magistrates dismissed the summons. saying that people who bought cheap ginger must expect some dirt with it. A Cardiff herbalist has been fined for selling herb beer on his premises, these not being licensed as a refreshment house (p. 308).

#### English News.

The Editor is obliged to correspondents who send local newspapers containing items of interest to the trade. He will be further obliged if such paragraphs be marked in all cases.

## The County Council, County Coroner, and County Chemist.

The Cheshire County Conncil arc angry with their County Coroner, Mr. Churton, on account of his reflections on their County Analyst, Mr. Carter Bell. The Coroner had a case before him in which a box of pills was concerned, and Mr. Churton thought these should be analysed. This analysis, he told the jnry, "should be conducted by a first-class analytical chemist. They had a County Connoil analytical chemist, but his chief business was to analyse milk and see how much water the honest farmer had put into it. He thought the man whom they could trust with this work was Professor Davies, of Liverpool." This was rather rough on Mr. Carter Bell, it must be admitted, and some speeches were made in the County Conncil indicating that that body at all events is satisfied with its analyst. It appears that Mr. Churton has acted in a similar manner before, and he was then warned by the Finance Committee that if he employed any other analyst the Committee would pay only the fee that they would be bound to pay to their own county analyst. The Council have no power to interfere with the Coroner's discretion, but they have power to refuse to pay a fee beyond that which they have agreed to pay.

#### Fertilisers and Feeding-stuffs Act.

Mr. Bernard Dyer reported to the quarterly meeting of the Leicestershire County Council that, although every effort had been made to place the provisions of the Act prominently before the public, no samples had been submitted to him for analysis during the past quarter. At the quarterly meeting of the Kent County Council Mr. Lloyd, the District Agricultural Analyst, reported that 13 samples of fertilisers and one sample of feeding-stuffs had been submitted to him for analysis during that period. In only one case—namely, a case of rape-dust showing a deficiency of nitrogen to an extent of 0.4—was there found to be any substantial departure from the guarantee. Mr. Lloyd added that he was quite convinced that the Act would be of enormous value to the farmers of the country when they had learned to pnt it into force. He regretted to find that some firms were endeavouring to sell manures with a nominal guarantee of 1 per cent. only of each fertilising constituent. The farmer who purchased with a guarantee of 1 per cent. only would have no claim upon the manufacturer except in the case where he had been wilfully cheated. Mr. Bernard Dyer, District Agricultural Analyst to the East Sussex County Council, reports that during the past quarter he had made five analyses of fertilisers and two of feeding-stuffs, and all of them were as described in the invoice or warranty.

#### A. Chemist's Sudden Death,

Mr. James Smith, chemist, of Teesdale, went for a walk one day last week to Roseberry, on the outskirts of the town, shortly after his breakfast. On his return walk he complained of feeling unwell, and obtained some brandy at a neighbouring hotel. He became alarmingly worse, however, and a doctor was called in. In spite of his attentions, death supervened in a few minutes, owing to failure of the heart's action. The deceased gentleman was a churchwarden, and belonged to one of the most respected families in the district.

#### Embezzlement from a Chemist.

At the Hull Police Court on August 15, John C. Riley was charged on remand with embezzling various sums of money from his employer, Thomas Milburn, chemist, of 34 White-friargate. The particulars were given in The Chemist and Druggist for August 11. Evidence showed that prosecutor, snspecting the prisoner, had employed several people to enter the shop and purchase goods with marked money, some of which was afterwards found on the prisoner. For

the defence prisoner's solicitor said he pleaded guilty, and asked for lenicncy on the ground that prisoner was a married man with a family. Prosecutor, however, did not join in this appeal, and had instructed his solicitor to press the charge. The prisoner was committed for 30 days. [The Registrar has written to the Eastern Morning News to state that the name of Mr. Milburn, described as a chemist in that paper, does not appear on the register, and that he would render himself liable to a penalty by the use of that title.]

#### Alleged Theft by a Chemist's Assistant.

At the Greenwich Police Court, on Thursday, Augnst 16, Archibald Barton (23), chemist's assistant, was brought up on a warrant charged with stealing from his employer, Mr. Wm. Harrison Brooks, chemist, of 509 Ncw Cross Road, Deptford, three bottles of scent, two bottles of medicine, a bottle of sweets, and a camera, value 2l. 9s. The prisoner, when arrested, said that he did not think that Mr. Brooks would charge him with a paltry thing like that; it was only what other assistants did. When searched the ticket for the camera, which had been pawned for 5s., and two other pawntickets, were found upon him. The prisoner contended that the camera was on hire with the knowledge of Mr. Brooks, and the other articles he had bought at the shop and paid cost-price for them. The prisoner was remanded, bail being accepted in two sureties of 20l., and himself in 40l., for his reappearance.

#### The Fly-papers Order.

At the Mansion House Police Court, on Thesday, William Trantz (36), a yard foreman; Emile Trantz (35), agent; Alexander Joseph (42), agent; and George Charles Frühling (45), professor of languages, were charged on remand before Alderman Sir Stuart Knill with conspiring together to obtain, and obtaining, from Messrs. Tunbridge & Wright, of Reading, 200 gross of patent fly-papers, of the value of 60l., and from Messrs. Reid & Co., of Dunfermline, towels worth 43l., by false pretences and with intent to defraud. The circumstances of the case were reported last week, and some further evidence was now given showing the connection of the prisoners with each other in relation to the alleged frauds, and Sir Stuart Knill eventually adjonrned the case agreeing to accept bail for Joseph in two snreties in 500l. each.

#### Poisoning by Sheep-dip: Recovery.

A labourer in the temporary employ of a farmer at Newbold was given permission to sleep in the granary for one night. During the night he felt thirsty, and drank ont of a bucket containing what he thought was oatmeal-grnel for the calves. The liquid, however, was a poisonous sheep-dip, and the man was soon seized with copions vomiting, which continued all the next day, when he gradually got better. His escape is attributed to the presence of soft-soap in the mixture, which acted as an effective emetic.

#### Accepting Agencies.

Edward Thomas Dickson, a man of respectable appearance was charged at the Liverpool Police Conrt, on August 16, with having on different dates obtained two sums of 11.7s. and 21. 5s. from shopkeepers at Waterloo and Seaforth by means of a trick. Mary Roach, wife of George Roach, who keeps a grocer's shop in St. John's Road, Waterloo, said that on June 26 prisoner entered the shop and offered some "stramoninm cigarettes," which he asserted were good for asthma, &c. He said he had customers for them in Waterloo and wanted a district agent, and he offered the agency to witness at a remuneration of 7s per month. After some persuasion, in which the accused offered to supply free printed wrappers for retail parcels of tea, witness bought of him two boxes of the cigarettes for 1l. 7s. He wrote a receipt for the money on an invoice form, with the name "A. Ellis, 56 St. Peter's Street, Milc End, London, E." He added the words: "All goods not sold to be taken back, and money returned, 7s. per month to be paid for the agency." Witness agreed to take the agency on those terms. The printed wrappers did not arrive and as there was no sale for printed wrappers did not arrive, and as there was no sale for the cigarettes, prisoner was written to, at the address given, but there was no reply. No money was paid for the agency. Asher Ellis, of 56 Cephas Street, late St. Peter's Street, Mile End, London, said he was a manufacturer of stramonium cigarettes. He knew the accused, but he had never employed

him, and prisoner had no authority to employ agents. Witness, on being shown several printed invoice-forms bearing his name and address, said they were not his. He never used invoice-forms, and they were circulated without his authority. Prisoner had bought goods from him, but the business had been done by correspondence. He identified the cigarettes sold to Mrs. Roach as of his manufacture, and his price for the quantity sold was 18s., less 15 per cent. Annie M'Kendrick, wife of Robert M'Kendrick, keeping a shop at Seaforth, had paid 45s. for cigarettes on similar representations, which had not been fulfilled. Detective Hoyle said he took the prisoner into custody at Wrexham, on July 17, and charged him with obtaining money by means of a trick. In prisoner's bag witness found invoice-forms, purporting to be those of Mr. Ellis, together with billheads, bearing other names and addresses. The accused was committed for trial at the sessions, bail being accepted in two sureties of 50l. each.

#### Carbolic Poisonings.

An inquest was held at Manchester on August 13, concerning the death of Charlotte Dyson (54), a charwoman, who died from carbolic poisoning. She was found lying unconscious in a room and removed to the Infirmary, where she died shortly after. A verdict of suicide whilst insane was returned.

Major-General Fred. Trench, an Indian officer, aged 60, disappeared from his lodgings at Braemar on Friday evening last, August 17. On Saturday the dead body of the General was found above the Mill of Coul. A phial, supposed to have contained carbolic acid, was lying near the remains.

Mary Craig Parmenter (43), of Knightsbridge, committed snicide on August 13 by drinking carbolic acid and cutting her throat. The deceased was a widow, and had had a great deal of trouble, and last year attempted to commit suicide. At the inquest it was shown that she had given way to drink, and the jury returned a verdict of suicide whilst temporarily insane.

Dr. Johnston, in the Medical Press for August 22, describes the cure of a woman who had attempted suicide by taking carbolic acid. The treatment adopted consisted in the administration of sweet oil, barley-water, magnesia, and milk, and in promoting vomiting by injections of apomorphia, and afterwards keeping the patient on milk and giving a bismuth-and-soda mixture.

#### The New Postcards.

After persistent pressure the British Post-office has agreed to allow the use of postcards other than those which they



themselves supply, on which a halfpenny stamp can be affixed. The conditions of this concession have not yet been announced, but no doubt the new regulation, giving a free hand to artists and printers, will open a new field of advertising. In the slow places of the Continent postcards bearing pretty views of the scenery or places of interest in the locality are freely sold, and we may expect a similar consequence will result here. This is one of the minor postal reforms which the indefatigable Mr. Henni-

ker Heaton, M.P., has so long advocated, and for which he has earned the thanks of the community, if not of the postal authorities.

#### Trade Trips.

On Saturday, August 18, some forty or fifty of the staff employed by Messrs. James Woolley, Sons & Co. at their laboratories and drug-mills, Cheetham, took a trip to Chester, travelling by the 1.17 train from Manchester in two saloon-carriages. On the Dee a special steamer had been chartered to take the party to Ecclestone Ferry, where a substantial tea was provided, after which there was time for walking, rowing, &c., the excursionists getting back to Chester in time to catch the 8.35 train for Manchester.

On August 11 the employés of Messrs. T. Morson & Son, from Summerfield Works, Homerton, took their annual outing to "Shelley Ongar," going by brake by way of Snaresbrook, Lambourne, Abridge, and Stanford Rivers. A good dinner was served at the Red Cow, after which cricket, quoits, skittles, and other sports were enjoyed until tea-time at 5.30.

The annual excursion of employés of Messrs. Potter & Clarke took place on Saturday, August 18, when forty-two of them journeyed to Taplow and Maidenhead. Dinner was provided at the New Thames Hotel, Mr. Potter presiding. The toast of "The Firm" was proposed by Mr. Wren (manager), and Mr. Potter acknowledged it. After dinner a drive to Burnham Beeches was enjoyed, and during the morning and evening boating on the river was extensively indulged in. Mr. H. A. Potter was also with the company; but, owing to business engagements in Scotland, Mr. C. Goddard Clarke was unable to be present.

#### The Chelsea Hospital for Women.

The new medical staff of this hospital has just been elected. This was necessary from the fact that the whole of the former staff had resigned in consequence of the recent revelations. The following were appointed:—Drs. Duncan, Fenton, Inglis Parsons, A. Giles, Eden, and O'Callaghan. The former staff, with two exceptions, have thus been re-elected.

#### A Free Pardon.

The Home Secretary has quashed the conviction for larceny against Messrs. James and Arthur Bidwell, who, at the Ottery Petty Sessions in October last, were each fined 21. and costs on a charge, brought by Messrs. Kutch & Howarth, of stealing two hair-brushes. The defendants were managing directors of the firm of Messrs. Bidwell Brothers and the promoters of a company, who began business as brushmakers in 1889. The company, however, liquidated, and on Messrs. Kntch & Howarth coming into possession, they found two hair-brushes missing, with the theft of which Messrs. Bidwell were charged and convicted on what their solicitor said was no evidence at all. An appeal was made but could not be pursued owing to legal obstacles; and Messrs. Bidwell then corresponded with the Home Secretary, who has advised Her Majesty to grant both a free pardon of the conviction. It was suggested that the conviction was a sacrifice to public feeling which existed in Ottery.

#### Poisoning by Nitrous Fumes.

An inquest was held on August 17, at Stratford, on the body of Golden Bruce, a labourer, in the employ of Messrs. Spencer, Chapman & Co., chemical-mannfacturers, of West Silvertown. The deceased had been ordered to repack a Gay-Lussac tower, used for absorbing nitrous fumes, by inserting interior cylinders. After working an hour in the tower he felt unwell, and was told to come out and walk about. He did not get better, however, and was sent home, where he died next day. The foreman of the works said that the tower was 6 feet square, and had no opening except at the top. The tower was lined with firebrick and might absorb some of the acid, but it had been washed down only two days before. Medical evidence showed death to be due to acute congestion of the lungs following the inhalation of noxious vapour. The inquiry was adjourned to allow of the jury visiting the tower.

#### An Aged Dispenser.

At the meeting of the Nottingham Board of Gnardians last week, a resolution was carried to increase the salary of Mr. John Davis, assistant dispenser, from 100l to 120l per annum. A motion was also brought forward "that the Local Government Board be requested to inquire as to the ability of Mr. R. E. Swinfen to properly discharge the duties of the office of dispenser at the York Street Dispensary in consequence of his advanced age." It was stated that no complaint had ever been made against Mr. Swinfen, but it was for the Guardians to decide whether he was unable, by reason of his advanced age—nearly 80 years—to perform his duties. At a recent meeting of the Dispensary Committee it was fully established that as a matter of fact the bulk of the work in the department was done by Mr. Swinfen, notwithstanding that he had the assistance of

Mr. Davis. The necessity was thrown upon Mr. Swinfen of doing most of the work from the fact that Mr. Davis was compelled at times to be absent at the other dispensary at Radford. The motion was rejected.

#### A Chemist Charged with Bigamy.

At the Tunbridge Wells Police Court on Tuesday, Arthur Moyse, described as a chemist, was charged with having committed bigamy, by marrying a second wife, his first wife being then alive. From the evidence of Detective Barden, it appeared that he arrested the prisoner in York Road, Tunbridge Wells, on a warrant. When the warrant was read over to him, he did not deny the offence, but admitted that he knew the risks he ran in marrying a second wife. Upon the application of the chief constable a remand was granted, and the accused was removed in custody.

#### Scotch Rews.

#### Trade in Edinburgh.

The fierce competition and insane cutting which attacked the Edinburgh drug-trade five or six years ago are now on the wane, writes a correspondent, and something like a return to better times seems to have set in. It is true that chemists in the neighbourhood of cutting drug-stores find it necessary to do business on similar lines, but lately a few of the leaders in the trade have been gradually raising prescription prices. It is now possible to get 1s. 6d. for 8-oz. mixtures, and other articles are charged at proportionate prices. This is the highwater mark, I onght to say, for some ohemists have tried but have failed to reach anything like the old figures. There is no possibility of a return to the old price-list days—in fact, it is considered that the dull uniformity then prevailing was unhealthy, and was partly responsible for the senseless rush to rock-bottom prices when the cutters came on the scene.

#### The New Examination-rooms.

The "extension of premises" which has been going on at 36 York Place, Edinburgh, is making the Pharmaceutical Society's property an extremely valuable one. house has three floors, with attics and basement, and the latter is almost on a level with a lane at the back. It was an easy matter to provide an entrance there, but not so easy to make one from York Place without sacrificing some of the office-space on the ground-floor. However, the difficulty has been got over, thanks to a happy thought of Mr. Rutherford Hill's, by widening the staircase to the basement and carrying it through one of the caretaker's rooms. This has enabled the architect, Mr. Hippolyte Blanc, A.R.S.A., to complete the handsome carved oak portico which is a feature of the entrance, and to furnish the new examination rooms with an ample ingress. On passing down the staircase one first enters on the right a hall of splendid proportions, not quite so large as the one in Galen Place, but when it is decorated it will not be far behind the London room in appearance. Next there is a practical pharmacy laboratory, considerably larger than the enlarged one in London. It will be fitted with dispensing counters for 24 persons. The chemical laboratory, which is north of it and facing the lane, is exactly the same size, except that a small lavatory has been taken off the north-west corner, and this has given Mr. Blanc the opportunity of forming an alcove at the lane windows. The alcove relieves the laboratory of its square look with a quite artistic touch. There will be benches in the laboratory for 24 workers. The work is at present well advanced, but it is not expected that the rooms will be ready for the October examinations, although they may he for the opening of the session. As far as can be judged, when they do come into use the examiners will be able to take 48 candidates in the practical work in one day, and working thus they will be able to finish the usual number of candidates in one week. This will be as pleasing to the candidates as to the examiners

#### The Half-holiday.

The chemists of Ayr have held a meeting (Mr. Burns in the chair), at which it was proposed by Mr. Weatherstone,

seconded by Mr. M'Millan, and agreed to unanimously:—
"That we hereby resolve to close our places of business every
Wednesday afternoon from 2 until 7 o'clock, provided that
those members of the trade who were unable to he present
give their assent to same." The secretary (Mr. M'Derment)
was instructed to call on the remaining members and report
to a meeting to be convened on an early date.

#### The Stamp Duty on the M.D. Degree.

At a meeting of Aberdeen University Court recently it was stated that the Lords Commissioners of Her Majesty's Treasury had intimated that they considered the stamp duty on the degree of doctor of medicine in Scottish Universities might be repealed, and that they would cause a clanse to be inserted in the first suitable bill for that purpose.

#### Dootors' Fees-Varying Estimates.

Lord Wellwood has disposed of a question raised regarding the fees payable to doctors of eminence in connection with a Court of Session action which had been commenced and abandoned after preparations had been made for the proof. The auditor had disallowed the large fees which had been paid by the defender to two eminent Scottish doctors who had examined the pursner in London. To the one doctor the auditor allowed 151. 15s. and to the other 101. 10s. These allowances were appealed against, and Lord Wellwood has now allowed a fee of 125 guineas to one of the medical gentlemen and 108 guineas to the other. The doctors names have not been made public.

## French Pharmacentical Rews.

(From our Paris Correspondent.)

THE LYONS EXHIBITION.—The jury-lists of the Lyons International Exhibition have recently been published. That for the Chemical and Pharmaceutical Section contains thirty-three names, including many of well-known chemists, such as MM. Adrian, President of the Chemical Syndical Chamber; Buchet, Director of the Pharmacie Centrale; Portes, chief pharmacist of the St. Louis Hospital; Poulene, chemical-manufacturer; and Petit, manufacturer of medicinal chemicals.

The Chapter of Accidents.—A retort which served for chemical experiments exploded last Thursday evening while-M. Klary, photographer, 40 Rue du Bac, Paris, was making some tests. A. M. Vandernoot, who was assisting in the work, was seriously wounded in the face, and his state necessitated his heing taken to the Necker Hospital. A serious accident is also reported from Nogent-sur-Marne, where a carter, who was driving a vehicle laden with casks of sulphuric acid down a hill, omitted to apply his break, the result being that the cart dashed against the curbstone, the casks broke, and the acid inundated driver and horses. The animals had to be killed on the spot. The man had his wounds dressed at a neighbouring pharmacy, but his recovery is doubtful.

A Pharmacist's anxious Wife.—The inhabitants of the Rue des Ecoles were aroused one early morning last week hy the shrieks of the wife of a pharmacien who carries on business, hut does not reside, in that street. The woman called out that her husband had been murdered. The inspector of police was called, and to him the lady explained that her husband had not come home that night. Never before had he played truant, and she was certain that his murdered body was lying concea'ed in the shop. The police broke open the door, but found the place in perfect order, though without its tenant. Later in the day it transpired that the chemist had quietly absented himself owing to threats of legal proceedings for an alleged offence. The trouble, however, has now been arranged, and the pharmacien is back again amongst his bottles, wearing the same air of stolid respectability as of old.

A PHARMACIST CENSURED.—An incomplete prescription has recently led to the prosecution in Paris of a doctor and a pharmacist. The facts are briefly as follows:—A Paris

doctor recently prescribed a preparation of calomel to a Madame F., to be taken in one or two doses at an interval of half an hour, without indicating the quantity. The pharmacist dispensed the medicine to the best of his ability. After having taken the preparation the lady showed symptoms of poisoning, and was attacked by a malady which incapacitated her for twenty days. Now, according to the Laws on Medicine and Pharmacy of 1845 and 1846, all prescriptions for scheduled poisons must be signed, dated, and bear in letters the dose of such substances, together with the way they are to be taken. Calomel, however, is not included in the schedule. The Judge found that the doctor was guilty of negligence in writing the prescription, and the pharmacist in preparing it, and that the latter ought not to nave dispensed it. In spite of this positive blame, the prosecution could not sufficiently prove that the illness of Madame F. was directly due to the dose of calomel she had taken; while, for the defence, Dr. Vibert showed that calomel is daily prescribed as a purgative, often in quantities up to a gramme, but is incapable of seriously affecting the health unless taken in a much larger dose.

THE DISTRIBUTION OF POISONS IN THE ORGANISM.—Professor Bouchard, in a communication made by him to the Paris Academy of Sciences last Monday, stated that experiments made in his laboratory by MM. Charin and Paul Carnot established the fact that poisonous substances, if administered to persons suffering from disease, do not spread equally throughout the organism of the subject to which they have been given, but are specially attracted by the affected parts. Thus, lead salts were given by the digestive organs to rabbits suffering from injury to one of the legs, with the result that after death a larger proportion of the poison was found in the injured limb than in any other part of the body.

Antidote against Curare.—At the same meeting M. Duchartre, who has been appointed perpetual Secretary in the place of M. Berthelot, read a paper by MM. Phisalix and Coutejean on a curare-antidote. The authors have discovered that a certain species of lizard, the "salamandre terrestre," is impervious against the action of curare, and they attribute its immunity to the presence, as a constituent of the blood of the animal, of a substance which acts as an antidote to the famous arrow-poison. Frogs, which are ordinarily killed by ½th milligramme of curare, acquired imperviousness to the poison after being inoculated with the blood of the lizard. It is thought that the discovery may be useful in connection with the investigations into the treatment of various diseases by the injection of blood from animals naturally impervious to these complaints.

#### Foreign and Colonial Rews.

ANTI-CHOLERAIC INOCULATIONS.—At a meeting of the Calcutta Corporation, held on July 26, it was decided to grant the sum of 7,800 Rs. to carry on anti-choleraic injections during one year. This has been reduced from 10,000r., and Professor Haffkine, who conducts the inoculations, says that the reduction will materially hamper the work.

AN AMERICAN DRUG CENTENARY.—The New York whole-sale drug-house of W. H. Schieffelin & Co. has just celebrated its first centenary. The firm was founded by Messrs. Lawrence and Schieffelin in 1794, and continued by them until 1799, when it passed into the hands of Jacob Schieffelin, who continued until 1805, when the firm of Jacob Schieffelin & Son was formed. Under this style the business continued until 1814, when the name was changed to H. H. Schieffelin & Co. In 1849 the name was once more altered to Schieffelin Brothers & Co., and in 1865 the present firm of W. H. Schieffelin & Co. was formed. As a memento of the occasion the firm have issued a handsome illustrated pamphlet, containing a sketch of the founder of the house, and of the successive members of the firm, with excellent portraits as well as engravings of the old Dutch house first occupied on Pearl Street, and of the later buildings occupied by the house, and some views of old New York.

COMPULSORY MENTION OF ANTIDOTES ON POISON-LABELS.—The Virginian Legislature has passed a new poison-law containing the following provision:—"It shall not be lawful for any person having authority to sell or dispense medicines or poisons, to retail any scheduled poisons without distinctly labelling the bottle, box, vessel, or paper in which said poison is contained with the name of the article and the word 'poison,' and the name and place of business of the seller, and in addition thereto at least two of the most readily obtainable effective antidotes to such poisonous article." We give below a fascimile of a label carrying cut this condition:—

Skull and Cross
Bones.

Strong coffee, without milk or sugar, after which, to produce vomiting, mustare mixed in warm water, or grease in warn water. Keep the body in motion.

Three months old 2 drops.
Three months old 2 drops.
Four years old ... 4 drops.
Four years old ... 6 drops.

WM. P. PARTIN, Church Hill Pharmacy,
2515 E. Broad Street, Richmond, Va.

The New York Drug-trade Club.—A meeting of those interested in forming a Drug-trade Club in New York was held recently at the rooms formerly occupied by the Insurance Club, 52 Cedar Street. The committee's recommendation that the club occupy these quarters was agreed to, and the list of officers prepared by the committee was accepted, the gentlemen selected being unanimously elected. The president is Mr. George R. Hillier, of R. Hillier's Son & Company; the vice-president, Mr. James Shaw, of Thurston & Braidich; the secretary, Mr. R. W. Phair, of R. W. Phair & Co.; and the treasurer, Mr. C. G. Euler, of Dodge & Olcott. In the selection of the Board of Governors, of nine, the committee was influenced by a desire to have all branches of the trade represented. They chose Mr. James Hartford, of Schoellkopf, Hartford & Maclagen, to represent the English drugs, &c., Mr. Ernest Stoffregen, of Sharp & Dohme, the pharmaceuticals; Mr. J. L. Hopkins, of J. L. Hopkins & Co., the crude drugs; Mr. G. G. Bacon, of C. G. Bacon & Co., the jobbing trade; Mr. Benjamin Blossom, of Dodge & Olcott, the essential oils, Mr. Elward Young, of Thurston & Braidich, the gums; Mr. H. T. Jarratt, of Mallinckrodt Chemicalworks, and Mr. W. W. Dixon. of E. R. Squibb & Son, the fine chemicals; and Mr. George Wasson, the brokers.

#### PATIENCE AND PATIENTS.

A PARADOX.

SAY, Doc! I'm fee'in' sort of tough, been knocked out fer a spell, Fact is, since back in '63, I never have been well; I've had the quiusy and the piles more'n a hundred times I guess, An' right there in my stomach, there's a feeliu' of distress: It's there when I get out of bed, and stays there most all day, Exceptin' when I get my grub, it generally goes away : An' I'm runnin' to consumption, fer I cough just like the dcuce ; 'Though I never spit up very much, except terbacker juice. And I can't stand work of any kind; I've tried, but the fact Is, Doc, when I go out to work, a pain comes in my back That almost takes my breath away; you laugh, but 'taint uo joke, The only thing that'l stop them pains, is to light my pipe an smoke. Terbaoker always used to work on me just like a charm, But lately it has lost its grip, and it fills me with alar m. You can bet I ain't no grumbler though, and the times has been so close, I sort o' hisitated 'fore comin' for a dosc: But if you kin do me any good, why just trot out your pills; I aiu't pertickler 'bout their size, but I am about your bills. A dollar! fer that little box? That pain's come back! Great Scott! 'Taint strange you doctors all are rich, jest charge this to me, Doc.' LA VERNE A. BARBER, M.D., in Medical Brief.

TEACHER: "How many scruples are there in a drsm?" Dick Hicks: "Supposed to be three, but most druggists sell'em without any."

## Legal Reports.

HERB-BEER AS A BEVERAGE.

THE case in which William John Green, herhalist, of Broadway, Cardiff, was summoned by the Excise authorities for having sold refreshments, which were consumed on the premises at 11.30 p.m., heing after the hour defined by the Act, without a licence, again came before the Deputy Stipendiary (Mr. Morton Brown) of that borough on Monday. Mr. James Cameron, F.I.C., of the Government below the statement of the control of the covernment below the statement of the covernment below the statement of the covernment of the ment lahoratory at Somerset House, was called as a witness. He stated that the herh-heer which had been purchased from the defendant was 1,01376 sp. gr. (the specific gravity hefore fermentation had taken place heing 1,018.51). It contained 1.55 per cent of proof spirit. It was very slightly flavoured with herbs. The drink was a weak, fermented, saccharine solution, palatable as a beverage, and similar in all respects to the herb-beers generally sold as temperance-drinks.

The Supervisor of Inland Revenue asked witness if he

regarded it as a medicinal drink.

Witness: No; purely as a heverage.
Mr. Beer: And it can be drunk almost ad libitum?

Witness: Just as freely as water.

In cross-examination by Mr. George David, who appeared for the defendant, witness said he drank about half a wineglass full himself.

Mr. David: Of what do the ingredients consist?

Witness: A saccharine solution mainly, flavoured with herhs. The drink contained 3.7 per cent. of solid matter,

Mr. David: There were some herhs?

Witness: It was flavoured with herhs. There was 1.5 per cent. of proof spirit, but that did not count as solid matter. Originally there would he 5 per cent. of solid matter, hnt 1.2 per cent. of that melted away.

Mr. David: You would not describe yourself as an authority

on medicines?

Witness: I must, of course, know something about them. I hegan life as a medical student, and studied medicine for

two years at Edinhurgh.

Mr. David submitted the prosecution had failed. There was no evidence that the premises of the defendant were used as a rendezvous for refreshments. The witness who hought the stuff evidently did not consider it a heverage, because he did not venture to taste it.

The Deputy Stipendiary: But he had seen people drink-

Mr. David said the costomers were simply attracted by an advertisement in the window. The stuff was not sold as a heverage, but as something which was good medicinally.

The Deputy Stipendiary: He himself calls it a beverage. Defendant: That is a mistake on the part of the printer.

It should have been called a "berh-mixture."

The Deputy Stipendiary: On the hottle it is called "Bright star Bavarian heverage." He thought people bought it as a heverage, and therefore a licence should have heen taken out for its sale. Defendant would he fined 40s. and

Mr. David said the defendant had carried on the business bonâ fide, and hoped the Bench would not allow costs in addition to the penalty. Defendant's mother had carried on a similar husiness in Liverpool for a good number of years, and never been interfered with, and defendant was under the impression that no licence was required.

Mr. Beer said the Excise authorities had been put to very great expense in the matter, and he asked for the costs

of the analyst.

The Deputy Stipendiary reduced the penalty to 10s, and allowed 9s. for costs and 2l. 2s. for the analyst.

#### ALLEGED ADULTERATED GINGER.

AT the Bingley Petty Sessions on August 16, Sarah Greenwood & Sons, grocers, of Cullingworth, answered to an adjourned summons for selling adulterated ground ginger. The particulars were reported in THE CHEMIST AND DRUGGIST of Angust 11. The case had been adjourned

to allow of a third portion of the sample taken hy the inspector heing sent to Somerset Honse for analysis. The Magistrates' Clerk read the certificate of the Somerset House authorities, which declared the sample to contain 8.82 per cent. of mineral matter, of which 2.11 was sand. "The total amount of sand and other mineral matter present in the sample," the authorities stated, "is high, and would be regarded as excessive if found in a high-class ginger which had been washed hefore heing ground; hut the results obtained are not greater than are sometimes found in low-priced ginger which has been ground as imported. We are of opinion that the sample in question affords no evidence of the presence of sand or extraneous mineral matter other than that present in unwashed ginger." Mr. E. V. Hiley, who prosecuted for the West Riding County Council, submitted that under this certificate he was entitled to a conviction. No evidence had heen presented hy the defendants to show that the ginger was unwashed, but, on the other hand, a tin had been produced by them in Court stating that the ginger was pure. Mr. P. Naylor, who represented the defendants, contended that he was entitled to the verdict under the Somerset House certificate. His clients had been snmmoned for selling ginger which contained not less than 5 per cent. of extraneous mineral matter. He submitted when the case was last before the Court that the ginger was of low quality, as was shown hy the price, but that there was no offence in selling ginger of a low quality. The Chairman said it seemed to the Bench that if people wanted cheap ginger they must expect to have with it a certain amount of dirt. The decision of the Magistrates was for the defendants, with costs.

#### CROTON-OIL PILLS FOR CASTOR-OIL PILLS.

AT the Bradford (West Riding) Police Court on Angust 16, John Kellett, grocer, of Wyke, was summoned by the district inspector, under the Food and Drugs Act, in respect of the sale of a penny worth of castor-oil pills which, according to the lahel, were of the kind for which he asked. The County Analyst's report showed that the pills were entirely destitute of castor oil, and that the active ingredient was croton oil. The defendant pleaded that he had hought the pills in the ordinary way of trade, and had sold them in the same state as he received them, helieving them to he castor-oil pills. The Bench imposed a fine of 10s. and costs, or in default ten days' imprisonment; and the defendant was informed that he had a remedy against the man of whom he purchased the

#### Bankruptcies and Hailures.

Re WALTER PATERSON CARR, High Street, Berwick-on-Tweed, Chemist and Druggist.

At the Newcastle Bankruptcy Court on Thnrsday, August 16, this dehtor came up for his adjourned examination. There was a further adjournment until August 27.

Re ALAN M'CONNELL, Appleby, Chemist and Druggist.

AT the August sitting of the Kendal County Court, Mr Dobson applied, on behalf of this dehtor, for his discharge. He hecame hankrupt five years ago, having commenced husiness in 1878. His liabilities amounted to 1,404%. 6s. 9d., and his assets had realised 5761. 7s. 7d. A dividend of  $5s. 7\frac{1}{2}d$ . in the pound had been paid. Mr. Dobson said the dehtor had traded for eleven years, and his books were not in a had state. He had done all he could to assist in realising the estate, and it had realised more than had been anticipated. The case was one under the old Act. The Official Receiver said that, though the case was not actually a had one, the debtor had continued to trade after knowing that he was insolvent. His Honour said this was the real offence. The Official Receiver stated that they had been ahle to dispose of the husiness as a going concern. His Honour asked if there was any special reason for the application, to which Mr. Dohson replied that he did not know of any. The dehtor, replying to his Honour, said he applied for his discharge because his father thought it was time he should do so. His Honour said he understood that the Official Receiver in his report was rather favourably inclined towards the debtor; but as the latter had continued to trade after he knew that he was insolvent he could not grant his immediate discharge, but would suspend it for eighteen months.

Re THOMAS BYRNE, 28 and 29 Nassau Street, and 18 Lower Kevin Street, Duhlin, Mineral-water Manufacturer, &c.

AT a meeting of the creditors concerned herein a composition of 7s. 6d. in the pound was offered, payable by three equal instalments at four, eight, and twelve months, the last to be secured; but it was decided to adjourn the meeting, in order that a valuation might be obtained of the debtor's premises, and also that counsel's opinion might be ohtained in respect of the validity of certain securities held by Mrs. Mary Byrne. The debtor's statement of affairs showed:—Unsecured creditors, 1,748l.; partly-secured creditors, 3,062l. (the value of the security being estimated at 965l.); to preferential creditors, payable in full, 271l.; total liabilities expected to rank, 3,845l. The assets are:—Stockin-trade, 282l.; book debts (good), 649l.; doubtful debts, 336l. (estimated to realise 115l.); bad debts, 695l. (estimated to produce nil); cash in hand, 85l. There were also horses, vans, bottles, leaseholds, policies of insurance, shares, &c., and the total net assets, after deducting preferential claims, were estimated at 1,676l.

The principal creditors are:-

					£	3.	d.	
Apothecaries' Hall, Dublin			• •	• •	30	0	0	
Barry, C., & Co., London					·15	0	.0	
Begg, J., & Co., Dnblin					11	0	0	
Boyd & Goodwin, Dublin					41	0	0	
Burgoyne, Burbidge & Co.,	Londo	n			26	0	0	
Byrne, M., Dublin					44	0	0	
Byrne, Miss, Dublin	:.				11	0	0	
Byrne, Mrs. M., Dublin					68	0	0	
Cannington, Shaw & Co., H					12	0	- 0	
Carew, B., Dubliu	41				11	0	0	
Chambers, W. & J., Dublin					14	0	0	
Chocolat Menier, London					12	0	0	
Christie, G. D., & Co., Dubli:					44	0	0	
Cole, W. L., Dublin					10	0	0	
Conolly Brothers, Dublin					19	0	0	
Cullen, John, Dublin					40	0	0	
Dublin and Wicklow Manur					24	0	0	
Dnnn, Joseph, Dublin		**			119	0	0	
Ellis, William, London	::	••			28	0	0	
Fagan, J. J., Dublin					12	0	0	
Fitzgerald & Co., Dublin	••	••	••	••	21	-0	0	
Flower & McDonald, Dublin		••		••	33	0	0	
Hay, William, Hull		••		••	29.	-	-	
Heeley & Son, Dublin	** * *	** *	•••	••	- 1	_0,,	0-	
	••	••	••	••	10	0	0	
Keenham, M., Dublin	••	••	••	••	106	0	0	
Leckie & Co., Dublin	**	••	••	••	13	0	0	
Lecky, J., Dublin	••	••	••	••	25	0	0	
M'Cann, T., Dublin	••	••	••	••	11	0	0	
M'Laine, A., Dublin	••	••	••	••	74	0	0	
M'Manus, P., Dublin	••	••	••	••	17	0	0	
Millar, A., & Co., Dublin	••	••	••	• •	29	0	0	
Moore, Hugh, & Co., Dublin	••	••	• •	• •	55	0	0	
Moran, P., & Son, Dubliu	••	••	• •	• •	82	0	0	
North, J. H., Dublin	••	••	••	• •	21	0	0	
Pumphrey, W. & M., Stockto	)11 	• •	• •	• •	13	0	0	
Robinson Brothers, Halifax	••	••	• •		13	0	0	
Rosenberg, A., Glasgow ·			••	• •	23	0	0	
Smith, T. J., London	••	• •		••	12	0	0	
Tabuteau, M., Dublin	••		••		130	0	0	
The British Trade Journal, 1	Loudon	1	••		10	0	0	
Tierncy, J., Dublin			••		19	0	0	
Partly Se	cured	Cred	litors					

#### Partly Secured Creditors.

Byrne, Mrs. M.	, Dub	in					1,112	0	0
The Hibernian	Bank	(Lim	ited) a	nd P.	J. M.C	abe,			
Dublin							1,950	0	0

## Re WILLIAM JOSEPH WILSON, Park End Street, Oxford, Chemist and Druggist.

AT the Oxford County Court, on August 16, before Judge Snagge, Mr. Edgar Fuller applied on behalf of this debtor for his discharge. The Official Receiver's report was to the

effect that the liabilities of the debtor were 1,3391. 9s. 1d The assets were estimated by the dehtor at 632l. 1s. 7d., but actually realised 1,011*l*. 3s. 6d. A first and final dividend of 10s. in the pound had been paid. Bankrupt started in business in 1881 with a capital of 50*l*., and filed his petition the following year, paying a composition of 5s. in the pound. His debts then exceeded 1,000l. He kept on trading and did a large business, and his deficit and failure might be partially explained by the fact that he was horrowing money of his landlord and former trustee at  $7\frac{1}{2}$  per cent. The Official Receiver submitted that bankrupt contracted the greater number of his debts without having reasonable expectation of being able to pay them. He also called the attention of the Court to the bankrupt's previous arrangement with his creditors, and to the under-estimation of his estate. Mr. Fuller said the debtor had valued his business at the price it would fetch if brought to the hammer, but he also said that if it could he disposed of as a going concern it would realise 250*l*, or 300*l*, more. He believed it did realise 300*l*, more. As to the objection that the hankrupt continued trading after he knew he was insolvent, the debtor had good reason for believing that he could have paid his creditors, and it was only a rush at the last moment which caused his downfall. The third objection was a matter of record, and could not be denied, but it was twelve years ago, and he thought it was a case in which immediate discharge might be granted, which would be a lifelong and material benefit to him. His Honour said this did not appear to be a bad case, and he would grant the discharge on August 27. He hoped if he should become successful in business he would consider it a debt of honour that he should pay the other 10s. to his creditors. The Bankrupt: Most decidedly.

#### Gazette.

#### PARTNERSHIPS DISSOLVED.

'Horsfall, J. T., and Chadwick, M., dry and soft soap manufacturers, Halifax, under the style of Horsfall & Co.

Lingham, H. B., and Simpson, G. A. G., surgeons, Acton, under the style of Lingham & Simpson.

Probert, T., and Drew, A., aërated-water manufacturers and brewers' agents, Cinderford, Gloucestershire, under the style of the Cinderford Aërated-water Company.

Weare, T. B., and Clifford, W. T., oil. colour, varnish, and gum merchants, America Square, Crutched Friars, E.C., under the style of Weare, Clifford & Co.

#### THE BANKRUPTCY ACTS, 1883 AND 1890.

#### RECEIVING ORDER.

Boyce, Henry, Jewry Street, E.C., and Woodford, chemical-merchant and agent.

#### ADJUDICATION.

Ward, Josiah, Lowestoft, chemist and druggist.

## Deed of Frrangement.

The following deed of arrangement with creditors has been filed at the Bills of Sale Office, under the provisions of the Deeds of Arrangement Act, 1867. Some of these deeds are for the purpose of carrying out compositions with creditors (and such are specified below), but the great majority of them are "assignments" in the ordinary form, to a trustee or trustees, for the benefit of oreditors. The Act referred to expressly provides that registration shall not give validity to any deed which is an act of bankruptcy, and there is no provision in the Act making any of these arrangements binding upon dissenting creditors.

Worth, Edwin, 40 Old Christchurch Road, and "Harbertou," Cambridge Road, Bournemonth, chemist. Trustee, George Bouc, Shaftesbury Hall Chambers, Old Christchurch Road, Bournemonth, auctioneer. Dated August 11: filed, August 16. Secured creditors, 3,4411. 19s. 6d.; habilities unsecured, 3,0021. 12s.: estimated net assets, 1,6081. 0s. 6d.

#### Rew Companies and Company News.

THE directors of Aspinall's Enamel (Limited) have declared an interim dividend of 4s. per share for the six months ended June 30, 1894, payable on September 1 next.

BRUNNER, MOND & Co. (LIMITED) have declared a dividend of 7 per cent. per annum on preference, and 30 per cent. per annum on ordinary shares for the half-year ended June 30, payable Angust 24, carrying forward 90,092*l*.

SOUTH WALES AND MONMOUTHSHIRE MINERAL-WATER BOTTLE EXCHANGE, &C., ASSOCIATION (LIMITED).—This company is registered by guarantee, not having a capital divided into shares; to protect the bottles, fittings, boxes, &c., of the members used in the manufacture of non-intoxicating beverages, &c., and to provide for the collecting, sorting, and storage of lost, &c., bottles. Registered office, Gladstone Street, Cardiff.

J. N. GERRISH & Co. (LIMITED).—Capital 10,000l. in 10l. shares. Objects: To acquire and carry on the business of a vinegar and colour manufacturer and merchant, now carried on at Roman Road, Barnsbury, under the style of J. N. Gerrish & Co. The first directors are:—J. Gerrish (managing), C. B. Gerrish, E. S. Gerrish, and C. M. Piercy. Registered office, 96 Roman Road, Barnsbury, Middlesex.

British Honey Company (Limited).—Capital, 5,000l., in 1l. shares. Objects: To acquire the business of honey merchants carried on by Messrs. Timberlake, of  $4\frac{1}{2}$  Mintern Street, London, and to carry on business as honey and wax merchants, and bee-keepers, and manufacturers and vendors of bee-keeping appliances, honey beverages, preparations, confectionery, and compounds. The first directors are Richard Lonsdale and William Owen, both of 430 West Strand, London. Remuneration to be determined in general meeting; qualification, 200l. Registered office, 430 Strand, London.

Mounsey Robinson (Limited).—Capital 2,000l., in 1l shares. Objects: To acquire the business of a chemist and dringgist now carried on by the executors of the late W. Kirkbride, at 8 Middlegate, Penrith, Cumberland, and to carry on business as wholesale and retail chemists and druggists, vendors of patent medicines, dentists, &c., mineral-water manufacturers, oilmen, wine-merchants, &c. The first subscribers (who take one share each) are: M. Robinson, 8 Middlegate, Penrith, general dealer; S. A. Bird, 150 Graham Street, Penrith, hatter; H. Holgate, 8 Middlegate, Penrith, chemist and druggist; J. Graham, 28 Castle Street, Carlisle, chemist and druggist; H. Sawyer, 37 Fisher Street, Carlisle, chemist and druggist; J. Bell, Carlisle, merchant; W. R. Scott, 139 Wenton Street, Carlisle, chemist and druggist. Mounsey Robinson is to be managing director and secretary.

WILLIAM GRAY & SONS (LIMITED).—This company was registered on August 14, with a capital of 40,000*l*., in 5*l*. shares. Objects: To acquire and carry on the business of seed-crushers and oil-refiners now carried on by W. P. Burkinshaw, under the style of Will am Gray & Sons, at Hull and Wisbech. The first subscribers (who take one share each) are:—J. Winkley, 27 High Street, Hull, merchant; F. F. Lambert, 35 High Street, Hull, merchant; T. Bailey, 25 High Street, Hull, sced-crusher; O. Hillerns, 45 High Street, Hull, merchant; E. R. Harrison, 160 High Street, Hull, merchant; T. H. Bulmer, 187 High Street, Hnll, seed-crusher; H. W. Plimpton, High Street, Hull, merchant. The first directors are Messrs. J. Winkley, T. Bailey, and F. F. Lambert; qnalification, 500*l*.; remuneration, 350*l*. and percentage, divisible.

PETROLEUM PRODUCTS SYNDICATE (LIMITED).—Capital, 10,000l, in 1l. shares. Objects: To adopt a certain agreement, and to carry on the business of refiners, manufacturers, dealers, and brokers of petroleum, other oils, and similar goods. The first subscribers (who take oue share each) are:—W. E. Savory, 84 Beresford Street, S.E., clerk; H. V. Powney, 9 Derby Street, King's Cross, W.C., gentleman; T. L. Whitelaw, Whittington House, E.C., gentleman; F.

Hall, 203 High Road, Streatham, merchant; W. Tiveen, Clifton, Derby Road, Woodford, accountant; S. Martin, 21 Marshall Street, W., secretary; C. H. Watson, 51 Grosvenor Terrace, S.E., clerk. Registered office, 1 Whittington Avenne, E.C.

#### Business Chunges.

MR. ROBERT M. LINDSAY has opened a new pharmacy at 140 Albert Street, Dundee.

THE premises of the Oxford Drug Company (Limited) in Broad Street have been enlarged.

THE old-established business of J. Page & Co., 47 Blackfriars Road, S.E., has been closed.

THE business of Mr. Watson, Hartfield Road, Wimbledon, is closed, and the fittings, &c., sold off.

A NEW business has been opened at 11 The Broadway, Highbury Park, N., by Mr. G. Hall, chemist.

MR. FRANCIS, chemist, 730 Old Kent Road, S.E., has disposed of his business to Mr. W. H. Pugh, late of Catford.

THE chemist's business carried on for over thirty years at Maida Vale, Kilburn, by Mr. Brightmore, has been closed.

THE warehonse of Mr. Philipp Röder, wholesale druggist, of Vienna, has been removed to 2 Stammgasse, Landstrasse, III. Bezirk.

THE business lately carried on by Mr. Wright, chemist, Holloway Road, N, next to the Great Northern Hospital, has been closed.

MESSRS. G. G. WOLFF & Co., manufacturing chemists, have removed from Calverley Grove, Hornsey Rise, N., to Acton Street, Haggerston, N.E.

MR. BABB, of Pont Street, Haverstock Hill, N., has sold that business to Mr. Hogg, and has purchased the two businesses of Mr. Pooley, of Wimbledon.

MR. WARFOLD, late of 193 Brixton Road, S.W., has purchased the chemist's business of the late Mr. Christmas, at Holloway Road, N., facing Junction Road.

MR. PATTINSON HAYTON, who has been in business at Wigton since 1845, has retired, and the business will be carried on in future by his son, Mr. T. J. Hayton.

THE SUSSEX CO-OPERATIVE DRUG COMPANY (LIMITED), of 135 Queen's Road, Brighton, will shortly open two more branch establishments—one at Tunbridge Wells and one at Worthing.

THE chemist and druggist business carried on for many years at 3 Sheep Street, Northampton, by the late Mr. W.R. Clarke, has been purchased by Mr. W. McKinnell, chemist and druggist, 6 Wood Hill.

THE shop and premises of Mr. Harvey, chemist, Weybridge, have been restored and refitted, the gabled appearance of the old house being preserved, but the pharmacy has been made quite new and is provided with an electric light installation.

THE chemist and druggist business carried on at 130 Newport Street and 99 Higher Bridge Street, Bolton, by the late Mr. James Hart, under the name of James Hart & Son, will be continued by his son Mr. Frank Hart, pharmaceutical chemist, who was for fourteen years connected with his father's business, under the same title.

CUSTOMER: Got a cure for headache? Druggist: Yes; 10 grains of capitine. Customer: Put me up 20 grains, then. Druggist: It's two doses you want, eh? Customer: No; one. It's for the two-headed boy at the dime show.—Life.

THE WORM TURNS.—"See here," said the fat woman, "what do you mean by selling me postage-stamps that have no gum on? You've got great ideas of how to accommodate the public, I don't think." "I guess the cockroaches ate the gum off after you got the stamps home," replied the down-trodden druggist. "Can't I sell you some good, fresh insect-powder?"

#### Marringes.

ALDWINCKLE—SMITH.—On August 15, at the London Road Congregational Church, Leicester, by the Rev. A. Finlayson, of Castleton, Rochdale, brother-in-law of the bride, James Mursell Aldwinckle, Leicester, representative of Messrs. Hirst, Brooke & Hirst, Leeds, to Florence, second daughter of Mr. Arthur Smith, 84 Evington Road, Leicester.

BRUCE—WALLACE.—At 104 Peel Terrace, Garnet Hill, Glasgow, on August 10, by the Rev. George Gladstone, assisted by the Rev. John Kirkwood, Troon, Alex. Bruce, representative of Messrs. W. & R. Hatrick & Co., to Isa, second daughter of John Wallace, late of Loans, Troon.

BURROUGH—LEWIS.—On August 15, at St. Savicur's, Croydon, Frederick, eldest son of James Burrough, Devonia, Thornton Heath, and Chelsea, to Laura (Lala), only child of Mrs. St. Clair Lewis, Battenhall View, Worcester.

DENNIS—SIMPSON. — On August 16, at St. John's, Rowland's Castle, by the Rev. George Austin, Fred Woodrow Dennis, pharmaceutical chemist, of Louth, to Mary Augusta Simpson, of Southsea.

FRENCH—GORHAM. — On August 14, at Holy Trinity Church, Sittingbourne, by the Rev. H. E. Trimmer, John Edward French, chemist and druggist, eldest son of John Thomas French, of Sheerness, to Emily Elizabeth, eldest daughter of the late Elias Gorham, of Sittingbourne.

#### Silver Wedding.

KERR—REOCH.—At Grenada Vil'a, Newport-on-Tay, on August 18, 1869, by the Rev. Robert Lang, M.A., Dundee, Charles Kerr, pharmaceutical chemist, Dundee, to Helen Reoch, youngest daughter of the late Wm. Reoch.

## Meaths.

DREW.—On July 28, Walter C. Drew, pharmaceutical chemist, Borough. Aged 33.

RICHMOND.—Last week, Mr. A. J. Richmond, chemist and druggist, of 8 Star Corner, Bermondsey, S.E.;

SMITH.—On July 19, William Smith, chemist and "druggist, Egham. Aged 62.

SMITH.—On August 11, at Teesdale, James Smith, chemist, suddenly. Aged 48. The deceased gentleman was highly respected in Teesdale, and for many years occupied the position of churchwarden. He leaves a widow and four young children.

WEEDING.—On July 31, Henry S. Weeding, chemist and druggist, West Cowes. Aged 76.

#### Personalities.

MR. WILLIAM LYLE, chemist, Berwick-on-Tweed, Local Secretary of the Pharmaceutical Society, has been elected a member of the Berwick Town Council.

MR. JOHN RUTHEBFORD GILMOUR, cldest son of Mr. William Gilmour, F.R.S.E., Edinburgh, has graduated in medicine and surgery at the Edinburgh University. Mr. Gilmour was one of seven out of 191 who took first-class honours.

CHEMIST (to assistant).—"William, how much of that winter-cough cure have we left?" William (counting): "Forty-two bottles, sir!" Chemist (rubbing his hands): "Then get out that batch of summer-medicine labels. When I'm running a first-class pharmacy, I can't afford to have any unsaleable stuff lying about."

#### MORE NEW REMEDIES.

#### Acetone Resorcin.

This is a body prepared by the action of fuming hydrochloric acid on a mixture of acetone and resorcin. An oily liquid separates, which is purified by solution in alcohol and subsequent crystallisation. The crystals melt at 212–213° C., and are insoluble in water, ether, or chloroform, but soluble in alkaline fluids. The composition is  $C_{15}H_{16}O_4$ .

#### Antiphthisine or Sozalbumose.

According to the *Pharm. Centralh.*, this substance is prepared as follows. It is, as the name signifies, a remedy for phthisis. To a pure culture of the *bacillus tuberculosis* a  $\frac{1}{2}$ -per-cent. solution of cresol is added, and the mixture nltered. After twenty-four hours the culture is sterile. Excess of iodide of bismuth and sodium, in solution, is then added, which precipitates the toxalbumins, while the sozalbumose remains in solution. The solution is warmed with caustic soda, to remove bismuth, and fittered, and on the addition of alcohol the autiphthisine is precipitated. It is dissolved in water containing 2 per cent. of cresol.

#### Antipyonine.

A fancy name given to a tetraborate of soda, which is prepared by dissolving in boiling water equal parts of borax and boric acid, cooling, and crystallising. The product is a white, unctuous solid, extremely soluble in water, and used as an antiseptic in diseases of the ear, eye, &c.

#### Losophan.

This body is a cresol derivative, being constitutionally triiodo-meta-cresol. It is prepared by the action of iodine on ortho-oxyparatoluic acid in presence of an alkali. The reaction takes place in accordance with the following equation:—

$$\begin{array}{ccc} C_{6}H_{3} & CH_{3} &$$

The substance is a colourless crystalline solid, soluble in ether and chloroform and insoluble in water. The crystals melt at 121-122° C., and contain 73 4 per cent. of iodine.

#### Traumatol.

This is yet another substitute for iodoform, and, like the preceding substance, is a derivative of cresol. Chemically it is iodocresol, and is prepared by the action of iodine, either solid or in solution in alkalies or alkaline iodides, upon oxytoluene, either in solution or in the form of an emulsion. A fine odourless precipitate is thrown down, which has a reddish-violet colour, and which, when washed and dried, forms the above substance.

PURIFYING THE SYSTEM —"Can't eat, can't yer? I was took the same a year agone come Christmas, and could not touch a bite or sup save consecrated beef-tea. And look a' Oi now! All ye want is just a dose o' physic, to purify your cistern."

OL. OLIVÆ GOSSYPII.—During the year 1893 we [i.e., the United States] imported 686,852 gallons of olive oil, which were valued at \$891,424. During the same year we exported 9,462,074 gallons of cottonseed oil, valued at \$3,927,556. We received from Italy, the home of the olive, 379,150 gallons of olive oil, and we sent her 462,244 gallons of cottonseed oil. From France, where most of the olive oil is manufactured, we bought 261,332 gallons, and sent her 1,205,108 gallons of cottonseed oil. We took 11,866 gallons of olive oil from Belgium, and sent her 46 233 gallons of cottonseed oil. From Spain we received only 320 gallons of olive oil, but we sent her 5,250 gallons of cottonseed oil. While the foregoing figures indicate that all the cottonseed oil exported does not return to us with an olive-oil label attached, still there is a strong presumption that the customers of the olive-oil producing countries are paying big prices for common cottonseed oil sailing under false colours.—Western Druggist.

#### COUNTER-IRRITATION.-III.

WITHOUT were the clear yellow harvest moon, the soft dusky sky, the swaying trees, the cool balmy air of a perfect summer night; within, the alarums and excursions, incident to the local charwoman's indulgence in a comfortable epileptic fit, among the syphons. There she lay and there she meaned, while the shop and household staffs scattered to the winds of heaven in search of doctors and relatives and stretchers.

The everlasting policeman who had attended first-aid classos, and knew all ahout it, had placed a Turkey sponge in each of her hands, and was solicitously endeavouring to insert the thin end of the door-mat between her teeth. I was dividing my attention between persuading the neighbour-hood that it did not own my shop, and preventing the patient from kicking a hole in the sponge-case.

When I went behind the dispensing-counter to mix a draught the crowd came in to offer suggestions and superintend generally. Those in the stalls were keenly interested and, considering the many trials that life brings, fairly satisfied with themselves and at peace with the world; but those in the pit had aspirations, and either stood on chairs to get a betterview, or called out, "Give ber air!" and pressed forward to obtain the benefit of any concessions.

When the bromide and belladonna bad at last been swallowed and I stood, empty measure in hand, sadly awaiting results, the bricklayer husband suddenly fought his way

"'Ullo!" he roared, catching sight of me, "what 'ave yer bin a doin' with my wife? Bloomin' nice kid you are to be trusted away from yer mother among poisons! S'pose ye're prard o'killin' of thet pore dear soul and leavin' me all alone to bring up a young fambly of nine! Yer see if I don't make yer pay fer this piece o' work, young man! Why, fer two pins I'd knock yer silly young face through that bloomin' wall! Lemme go-I'll give 'im what for as sure's my name's Why? what? not poisoned 'er? Only a fit? Go' blime! and to think that I've bin a-payin' insurance money for the best part o' five year!"

Half an hour later, when the policemen had liquidated their tips, and the husband had shaken his fist at me for the last time, and told me to be careful in the future, and not do it again, the first doctor arrived. He looked round the shop hnngrily, and then beamed blandly on me. He had jnst hnrried away from a most important case, and popped in to see if he could be of any service; he was sorry, but was compelled to hurry off to a consultation for which he

was already late.

On his heels came others, many others; there were sedate general practitioners and anxious beginners, straw-hatted be-serged students and silk-hatted be-frocked quacks, dispensing surgeons and snperior physicians, shaven specialists and bearded obstetricians, attennated homocopaths and lusty allopaths, bluff navy men and brusque army men-and each of them had just harried away from a most important case, popped in to see if he could be of any service, was sorry but must burry off to an overdue consultation.

Had it been a fitting moment for sentiment, I should have shuddered for the fortbcoming mortality returns, but there was no time for such sickliness. A psychological moment had arrived demanding actions and Men.

Wielding trusty brooms, the assistant, the errand-boy, and I rushed to the door and swept back the terrible onslaught of mighty medicine-men, just as, in martial days of yore, the noble three held the Tiber bridge against the Tuscan

Truly, as Ruskin says, "The market may have its martyrdoms as well as the pulpit, and trade its heroisms as

well as war."

#### THE LATEST PEPSIN.

LIGHT satire is a more effective weapon than solemn invective against the sometimes excessive inventiveness of our manufacturiog pharmacists and their passion for introducing new preparations with names ending in "ine." A paper is reported, in the *Indiana Pharmacist*, which purports to have been read before the Indiana Pharmacentical Association, by Professor J. P. Barnum, "On Capri-

cine, or Goat's Pepsin." The first suggestion of this discovery, it is explained by the anthor, came to Colonel Jos. Mulbatten, the distinguished scientist and antiquarian, while he was studying in London some curious Abyssinian records from Babylon. Among these he came across the story of Nebuchadnezzar. The closing lines of the history instantly attracted his attention. A free translation of the cuniform characters reads as follows :-

"And thus was Nebuchadnezzar, the son of the Jews, punished by the gods for his sacrilege in eating of the stomach of the sacred goat forbidden to man, else he would

devour all green things from the face of the earth."

The thought struck Colonel Mulhatten forcibly that, although the stomach of the calf, pig, and even the gizzard of the rooster had been exhausted as a source of pepsin, William, with his omnivorous stomach capable of thriving on a diet of circus bills, bemlock boards, and tin cans, had never been experimented on, and that a stomach whose gastric juice is capable of such wonderful powers must, when properly prepared, be a priceless boon to suffering humanity. Alive to the importance of the subject, he returned home at once and consulted the distinguished medical authority, Dr. Ananias, whose wonderful cures from the use of proprietary remedies and clinical notes of cases treated have recently been filling the pages of the medical

Dr. Ananias entered into the work with all the vigour of his enthusiastic nature. An aged billy goat was secured and killed, and from his stomach, after laborious experiments, "capricine or goat's pepsin" was successfully prepared in the form of scales, dry powder, saccharated, and as elixirs, wines,

and other liquid compounds.

Then follow some of Dr. Ananias's clinical notes:--" Miss Abigail Smitb, aged 39, complexion sallow, eyes faded to a dish-water colour, emaciated, weight only 63 lbs., 6 oz.,  $142\frac{14}{100}$  grains, affected with strabismus, form bent and angular, skin drawn closely over bones of the face, neck and chest, limbs distorted by articular rhenmatism, so as to render walking impossible, except by the aid of crntches or a friendly hand, digestion bad, stomach nnable to retain solid food. This was, in brief, the condition of the patient when sbe came to me for treatment. I ordered "elix. capricine" every two hours in tablespoonful doses. There was a marked improvement after the first dose; was able by evening to retain and digest some solid food. Changed prescription next morning to one scruple "capricine" in scales three times a day. An exceedingly ravenous appetite developed; the patient partook of as much solid food as we would allow, reported hunger was not satisfied, awoke in the middle of the night with uncontrollable pangs of hunger, and in the dim light mistaking a package of 8 oz. steel tacks for caramels swallowed the entire amount. The capricine at once dissolved the steel and passed it into the blood. The effect was truly miraculous, colour came at once to the cheeks and lips, the skin began to clear up, the eyes took on their original violet colour, the form rounded up"; and so

Another case is reported to show that the administration

of the remedy is not wholly free from danger.

Colonel William Brown had been in a decline for the past two years. He attributed the beginning of his troubles to the M'Kinley Bill, latterly much intensified by the local-option vote which closed a saloon on the opposite corner, where he obtained most of his nutriment, and forced him to fall back on drug-store whiskey. From a strong and vigorous man weighing 250 lbs. he had fallen off to a mere shadow, troubled with insomnia and constant lassitude. He had tested all standard proprietary remedies and was now put on "elixir capricine," a wineglassful three times a day, with a tablespoonful of iron-filings half an hour afterwards. The effect during the first day was satisfactory; but at night the colonel got up repeatedly and, the elixir resembling in flavour his favourite brand of "Bonrbon," took large draughts until the entire bottle was emptied. His wife, on awakening the next morning, found him sitting up in bed complacently chewing up the counterpane. On attempting to reason with him, was frightened by an angry shake of the head and a prolonged "Baa." The doctor and clergyman were sent for, and the latter was promptly landed on the opposite side of the street, heels upward, by a tremendous butt in the stomach. The patient ultimately recovered.

#### INSECTICIDES AND FUNGICIDES.

THE Ontario Agricultural College publish a list of formulæ for preparations useful in destroying the various insects and fungi injurious to plants. We give a list of those likely to prove most useful to chemists in agricultural dis-

A good general fungicide is the Bordeaux mixture, the formula most used being the following:-

Copper	sulp	hate		••		 6 lbs.
Lime					• •	 4 ,,
Water			.:			 22 gals

Dissolve the copper compound in 16 gals, water; slake the lime in 6 gals water, and, when the latter is cooled, pour it into the copper solution and

A modified form, known as Eau Celeste, consists of-

Copper sulp	hate	• •	• •	• •	 2 lbs.
Ammonia		••			 1 quart
Water			• •		 50 gals.

Dissolve the copper sulphate in 2 gals, hot water; as soon as cool add the 1 quart ammonia, and dilute to 50 gals.

The mixture should be sprayed over the infected parts.

The most useful insecticides are those containing, as a basis, Paris green. This substance, being insoluble, does not injure the foliage. A good formula is 1 lb. Paris green to 200 gallons water. This is very effective against leaf-eating insects. To destroy plant-lice and scale insects, the following emulsion should be used:—

					(	mart	s.
Soft soap				• •	• •	1	
Boiling water	••	••	••		••	2	
Mix and while hot a	idd I i	nint of	enal d	nil.			

When using dilute with twice the amount of either hard or soft water. Many other preparations are used, the chief being carbolic acid and tobacco-dust; but the above emulsion is most useful. If a combined insecticide and fungicide be preferred, it may be made by adding 4 oz. Paris green to the Bordeaux mixture.

#### PRECAUTIONS TO BE ADOPTED IN SPRAYING.

- 1. Keep poisons labelled, and out of the way of children.
- 2. Do not spray so far into the season as to affect the fruit.
- 3. In making emulsions remember the inflammable nature of coal oil.
- 4. Never spray trees in bloom.5. Try solutions on a small scale if likely to injure foliage, and watch results.

As copper compounds act upon tin and iron, it is well to prepare such mixtures in earthen, wooden, or brass vessels.

For certain fungi and insects special mixtures must be used.

Pear-leaf Blight, which appears on both leaves and fruit, giving the leaves a spotted appearance and causing the fruit to crack.—Spray with ammoniacal solution of copper carbonate as soon as the leaves begin to open, and repeat two or three times at intervals of two weeks.

Grape Black Rot - Spray with ammoniacal solution of copper carbonate or Bordeaux mixture six times, every two weeks, commencing early in May. If the last two sprayings are with the copper carbonate the fruit will not be disfigured.

Smut.—(1) Immersing seed in hot water of 135° F. for five minutes will destroy the spores of smut; 5° above or below that point will fail. (2) Put 1 lb. of copper sulphate in 20 gals, of water and allow the seed to remain in this for about fifteen hours; then put the seed for ten minutes in lime water made by slaking the lime in ten times its weight of water.

Cucumber-beetles, which are often so troublesome, can only be kept away by covering the plants with netting.

Strawberry-slugs may be destroyed by the use of pyrethrum, either dry or mixed with water. If this fails to remove all, the Paris-green mixture will finish them off.

The same treatment (without using Paris green) will prove effective in destroying the common cabbage-worm.

#### THE MANAGEMENT OF THE HAIR.

THE hair is to many people an almost constant source of worry, and the transference of this worry to the shoulders of the chemist often proves a considerable source of revenue to the latter. In the current number of Health Dr. Andrew Wilson gives some useful hints on the management of the hair. There is one very plain rule, he says, regarding the hair and its welfare, which should not be forgotten namely, that as part of the skin itself the hair sympathises very kecnly in most persons with the general state and condition of the body. Ill-health and mental worry both exercise considerable influence on the condition of the hair, and when ailing people complain of hair-troubles, they may mostly cure themselves by endcavouring to gain the lost general health to which the local hair-ailment may be due.

Another point worthy of attention is a caution against too frequent wetting of the head, especially at the morning bath. This leaves the hair in a damp condition, which cannot but be injurious. On the other hand, this should be no reason for not washing the head, say, once a fortnight, to

prevent dirt blocking the pores.

Borax and ammonia lotions act harshly, says the doctor, and tend to promote greyness. There is no need to use anything but soap and water for this purpose. It is difficult to understand why so many people object to using a little simple dressing on their hair, for by using some such preparation many people who complain of hair-weakness would cure and prevent further loss. A little dressing applied each morning renders the scalp and hair soft and supple. People with ordinary heads of hair should use something of the following nature: --

						DIS
Castor oil	, .	 	• •	••		2
Almond oil		 	••	• •		14
Glycerine		 				6
S.V.R.	• •	 	• •		• •	2

Perfume may be added, and if a less oily preparation be desired, the chemist can easily modify the ingredients, though a too spirituous lotion is injurious from its drying action. Hard brushes and small combs should be avoided as tending to irritate the scalp, and if used when dandruff is present they increase rather than diminish it. Dandruff or scurf may also be due to over-secretion of the oil-glands, and this is often due to infrequent washing. In treating this complaint the first point is to cleanse the scalp thoroughly. If a shampoo-liquid be desired the following may be used:—

				Oz.
Curd soap	 	••		 1/2
Liq. ammoniæ	 ••	••		 1
Eau de Cologne	 ••		••	 1
Water to	 			 10

A wineglassful of this may be used, and the head washed afterwards with tepid and cold water. After this has been done, the hair being kept short, glycerine of borax may be applied every night. This is often useful in removing scurf. If this fail, always avoiding hard combs and brushes, then wash the scalp every three or four days, and use the following:-

Resorcin		• •	• •	• •	 • •	guj.
Olive oil			• •	• •	 • •	Biij.
Ether		••	• •	• •	 	Điij.
S.V.R.	• •	••	• •	••	 	3viss.

This should be applied daily, well rubbed into the scalp, and will generally prove effective. Diluted ointment of red oxide of mercury is also of great value in preventing and curing this unpleasant condition.

POTASSIUM IODIDE INCOMPATIBLE WITH POTASSIUM CHLORATE.—Sohet calls attention (Bull. Soc. Roy. Pharm. de Brux.) to the danger of prescribing together potassium iodide and potassium chlorate. When this mixture comes into contact with the acids of the gastric juice, iodine is liberated, which, in its turn, acts upon the potassium chlorate and liberates chlorine. Sohet also alludes to Melsen, who long ago determined that dogs could be killed by administering a mixture of 6 to 9 grs. of both salts.

#### IN A FRENCH HOSPITAL.

Paris, May 26.—I awake this morning with a sensation of sickness and languor, accompanied by a painful swelling in the throat. I succeed, after one or two attempts, rendered ineffectual by attacks of giddiness, in completing my toilet, but a few hours are sufficient to compel me to take to bed again and to send for a doctor. He pronounces my malady to be scarlet fever, whereupon I decide to be transferred to a hospital. The doctor takes the necessary steps for informing the police of my case, with a view to my conveyance to the hospital in a special ambulance carriage (no others are allowed), and to the subsequent disinfection of my apartment in the manner prescribed by law. I dress, and wait till 10 P.M. for the ambulance, which does not arrive. I then decide to pass the night in my own bed, having within call an attendant in the event of high fever setting in before

the morning.

May 27.—At 1 A.M. we are disturbed by the ambulance. After some discussion, the driver is induced to see things in a reasonable light, and to postpone my departure till daytime. I am left in comparative peace, passing a moderately good night, till 7.30 A.M., when he reappears. I wake, feeling less giddy and my throat not so painful. A grey, drizzly morning. I take my place in the vehicle—a species of box without springs—and depart for the Necker Hospital, in the Rue de Sèvres, where I arrive with my bones in a very fair state of integrity, considering the diabolical construction of the carriage and the paving of the Paris streets. I am conducted to the fever ward, a low red-roofed erection in the grounds of the hospital, isolated from the main building. I stipulate f r a room to myself, which I get with a little difficulty. A portion of my clothes are immediately impounded for purposes of disinfection—almost, in this case, synonymous with destruction. Why a portion, and not all; I do not venture to inquire, fearing my logic may take effect in an unfavourable direction.

I am put to bed in company with a friendly bot-water bottle, which, however, rapidly raises things to such a heat between us that I pray for a separation on any terms. I am continually disturbed by official and officious personages, to wbom, at their request, I impart with angelic bonhomic such relevant details about myself as my mother's maiden name and my private address of two years ago. One of them engagingly disarms criticism by confessing all this to be bête. I cannot but emulate his disinterestedness, so politely contradict him. Thus do manners make liars of us all—all of us, that is, with manners. The rest lie from other

causes.

The particulars obtained, together with a table for registering temperatures, &c., are inserted in a portable tablet

at the foot of the bed.

ward olose at hand.

I am told that the fever stage will possibly bring delirium with it. Since, with Montaigne, I find nothing so worthy of investigation as myself, I look forward to examining my sensations on the approach of these conditions with such interest as animates an astronomer on the occasion of a transit of Venus. My temperature is taken. I hear, to my disgust, that it stands at 39.6° C. (= 103.3° F.), indicating that I am already in a state of high fever, my sensations the while being quite of a commonplace order. I feel only some discomfort from the increase of temperature, and a not unpleasant consciousness of utter prostration. My mental faculties, on the contrary, show no more signs of aberration than usual (I can hardly say less), and I await in vain the premonitions of delirium.

The superintendent, or patronne, of the ward, a stout, rednosed, sharp-tongued Bretonne, places a jug of milk by my side, together with a gargle of potassium chlorate and a solution of 6 grammes of ammonium acetate, the latter to be taken at intervals, and to be renewed daily until the red eruption of the skin is over. My allowance of milk is to be two litres per day, until I am permitted to eat solid food once more. For quenching thirst I am supplied with a jug of tisane, a decoction of herbs in boiling water with sugar, much affected in this country. A male attendant divides bis care between myself and the inmates of the large

I ask permission to bave certain books, journals, and other

necessaries forwarded to me, which is granted without the least demur, and of which I forthwith avail myself by writing for the articles in question. My feeble condition enables me to pass the remainder of the day in a half doze, dimly conscious now and then of the entrance and exit of the attendant.

May 28.—I wake about 6 A.M. after a restless night. The swelling in the throat has almost entirely subsided. My temperature has fallen to  $38^{\circ}$  C. (=  $100.4^{\circ}$  F.). All hojes

of delirium are therefore crushed.

During the morning I receive a first visit from the dcctors. These are two, the *interne* or resident, and the *externe* or non-resident, doctor, of whom the former only is fully qualified—a keen-eyed young man, with sharp leading questions, careful and thorough methods of examination, and rapid decisions. My attack, it appears, is not a serious one, as was apprehended at first from my nationality, the English variety of the fever greatly exceeding the French one in the severity of its attacks. I am pronounced to have the "gallop" of the heart peculiar to such cases very strongly marked. Faint urinal traces of albumen are discovered, involving continuance of the milk diet until they disappear. The red eruption is observable on all portions of the body.

The upright position necessary during part of this examination brings on giddiness and symptoms of fainting on the departure of the doctors. Again I prepare to experience new sensations, but am again disappointed, the swoon being arrested by vinegar and friction. On the news being communicated to the medical men, I have them back immediately, accompanied by their chief, a genial professor, full of knowledge and hot on new scents. My fainting seems to offer him one, but turns out fruitless. The "gallop," however, proves of interest, and students are called in, who lay their heads on my bosom for a few moments each, and then

nod significantly.

It occurs to me that I should feel signally favoured by the residence in me for the moment of a malady important enough to attract such attention from men of learning, or at least to take it as some set-off to my incarceration; for such attention has nothing to do with myself, who look on, an unnoticed though interested spectator, at the contest between disease and doctors for which my body affords a temporary arena. I have ordered sundry books and journals, which do not arrive; writing materials are not to be obtained without difficulty, and furnish at best occupation for but a few minutes, a sharp pain in the back being the punishment for any indiscretion. The lack of intellectual nourishment sends me on fantastic journeys into the speculative regious of mathematics and metaphysics, relieved at times by minuteobservations of my immediate surroundings. Some paces from my window, across an open passage, I observe a portion of a mean-looking building, with "Gynécologie" inscribed in large characters over a narrow wooden door. see nothing to justify the rather pretentious title till late in the day, when something is carried in on a stretcher screaming. I learn later that it is a mad woman who bas just undergone an operation. Her shrieks and vociferations reach me at intervals, and continue into the night. In spite of them I fall asleep as darkness comes on, but am roused not long afterwards by voices of women and hurrying feet. I gather tbat a cholera patient is expected, who is to be lodged in the room opposite to mine in the narrow passage. The news is a little startling, and I follow the preparation for and reception of the sufferer with my ears till the sounds die

May 29.—At an early hour I am informed that the proximity of the cholera patient is judged dangerous for me by the doctors, who have therefore ordered my transfer to the large ward; I am carried thitber in the arms of the stalwart attendant. Not long afterwards a second cholera case arrives, and is placed in the room I have just quitted.

The ward in wbich I am now installed is clean, high, well-lighted, bare—all, in short, that a hospital ward is expected to be. A large stove in the centre for use in winter communicates with the roof by means of a perpendicular chimney. The doors, like all others in the hospital, are provided with glass panels.

The accommodation for patients consists of eight beds, from seven of which seven curious pairs of eyes witness my entry with all the interest due to an important event. The inevitable "Ao, yees" reaches my ears, but, possibly from

natural diffidence, no turther salutation is vouchsafed to me in my native tongue. In my turn I set myself to gather some indications of the quality of my new companions, the only guides being the stray conversation and the headpieces visible above the bodolothas.

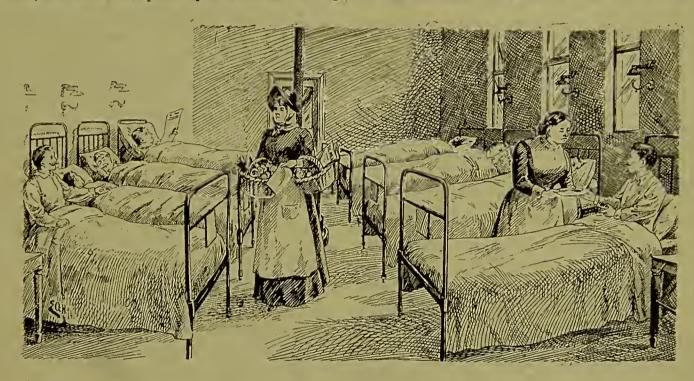
I find my room-mates to be, without exception, young men of ages varying from sixteen to twenty-five, endowed, in so far as concerns those who carry on conversation, with few and rudimentary ideas, but possessing in compensation a rich fund of slang synonyms in which to express them. They are all in various stages of the same ailment as my own, and shortly after my arrival those who are sufficiently convalescent get up, each donning for that purpose a uniform thick overcoat of blue cloth and his own trousers; when not in use these garments are stowed away at the head of the bed behind the

At 11 A.M. a repast is served for those permitted to eat, consisting of a first course of soup and a second of meat and vegetables. Those who have risen eat together at a table; to them falls the task, which they seem to accept with much good will, of laying the table, waiting on those in bed, clearing away, and sweeping up afterwards. (In some hospitals, I am told, the convalescent are set to wax the polished floors.) The distribution of the food is superintended in person by the patronne, who enters accompanied by two attendants bearing written up from day to day. His interrogatories to this effect take a prescribed form, from which they hardly ever vary, unless it is for the aimless repetition of some previous question. I should not care to search for scientific evidence among the formless mass of detail he has collected.

The interne appears every two days only, and makes a cursory though sufficiently thorough examination of each patient.

The monopoly of supplying the inmates of the hospital with various small luxuries belongs to an amiable female styled the cantinière, who makes a diurnal progress through the wards laden with two huge baskets, containing such articles as Paris journals, fruit, confectionery, bread, sewingmaterials, tobaceo, &c. Her appearance is the signal for some excitement and much display of gallantry and double-edged persiflage. She offers a means of procuring necessaries from outside, of which I intend to avail myself later. Meanwhile, faute de mieux, my books not having arrived, I am compelled to purchase several third-rate papers, and accomplish a feat I should never have attempted in health that of reading them all through, even to the advertisements. Some of these, by the way, are diverting enough, reading like those in the *Matrimonial News*, with the matrimony omitted.

I feel very weak during the day, but otherwise much



large copper pans, from which she doles to each patient his portion, menagerie fashion. At 5 P.M. the same process is repeated with the same details.

The ready kindness of these young fellows refreshes me like an old friend's greeting. Though evidently, for the greater part, of the labouring and small tradesmen's classes, with intelligence rudimentary and manners none (this is not likely to come to their ears, or I should certainly refrain from writing it), they accept their position with philosophic geniality, and their assistance is always at hand for those who are still confined to bed.

My changed conditions bring at least one advantage. I am enabled during the day to gather some information of interest. From a chatty fellow-patient, I hear that, although the period of infection is of forty days' duration, the space available at the hospital for scarlet-fever cases does not permit them to remain so long; they are consequently discharged, with due cautions, at periods varying with the extent of the skin-peeling that invariably takes place, in greater or less degree, during recovery from the fever. Some have left in three weeks from the date of their entrance. As I had resigned myself to the prospective confinement for forty days assigned to me by the doctor yesterday, this news is as grateful as unexpected.

The externe goes the rounds of the wards daily. His is the duty of keeping a record of each patient's progress, better. I am equal to sitting up in bed. Temperature  $37\,2^{\circ}$  C. (= 99° F.). By 8 o'clock all are abed; about 10 a diversion occurs

in the shape of the arrival of a new patient. The night "watcher," who sleeps in a temporary bed on the floor, is hastily roused, and preparations are made for the domiciliation of the new-comer, who sits on a chair the while and looks on with a sleepy stolidity. There is but the single ward of eight beds, and these are all occupied. The procedure, however, is very simple. One of the eight, he whose entrance dates the farthest back, is unceremoniously woke and bundled out of bed. He is provided with a temporary folding framework of eanvas and wood, on which he has to prepare a fresh bed, and with this, with the necessary bedclothes, and with all his belongings he disappears into a small room beyond, where there are some half-dozen in like ease, packed closely together. We are glad to get rid of him, for he is an inveterate snorer. Meanwhile his bed is rapidly got ready for the latest arrival, who is soon snugly enseonced in it, and in a few minutes all is as before.

I conclude that in due course each has to suffer such ejection in his turn, and hope only that when mine comes it

will not fall during the night. May 30.—My condition slightly better. Temperature 36 6° C. (= 97 9° F.). My daily portions of milk and drugs continue unchanged.

To-day I receive a first instalment of the books I had ordered. Their advent, following on three days of inanition, causes me a rare pleasure. I enjoy the rustle of the envelopes in the unpacking as a child enjoys the first squeak in the orchestra preliminary to a pantomime. Unlike Socrates when unfettered, I do not stay to consider my feelings (Socrates, by the way, carried that sort of thing too far), hut give myself, unquestioning, to unalloyed delight

Our vatronne, the homely body whom I have more than once mentioned, is the object of some admiration from me, in that a life experience of hospital service has not sufficed to hury the elemental womanly sympathy in her with the individual sufferer. A rare eye has she for a carelesslymade hed, or a stain on the floor, and as quick a tongue for the admonishing of those responsible; hnt her rough pity and care are at ready call for one in pain. The thought of this lends a kindly colour even to her interminable scoldings, as the sounds of them reach us, the thin partitions making her clacking voice audible all over the wards. The attendants, I take it, make no such allowances for her, and I certainly cannot arrogate to myself the qualities that would enable me to endure continuous suhordination to her with

May 31.—The gargle of potassium chlorate is dispensed with from to-day, all uneasiness in the throat having disappeared. Temperature  $36.2^{\circ}$  C. (=97.2° F.).

This morning three convalescent patients from the region heyond present themselves to the externe, requesting leave to depart. This, after a cursory examination, is granted, with a cantion to mix as little as possible, for a time, with other people, and to go into the country. None of these date from over a month, and in one case only is the peeling process quite over. A fourth, who has not had the fever at all, hut was brought to the hospital in error, is also allowed to go; he has heen kept a fortnight! Their delight is a little tempered hy the discovery, when their clothes are delivered to them, that they have not improved by disinfection, heing lamentahly shrunk and creased. They look strangely altered when dressed, the substitution of their ordinary habiliments for the uniform white shirt heing very much to their disadvantage. It is a demonstration of the importance of dress. The freed ones depart, taking their way through the hospital grounds, amid an ovation of farewells shorted from our windows, and smiles from those of the women's ward opposite, peopled by pretty faces.

This afternoon occurs an incident of welcome augury. One of the patients, a garrulous man, possessed of a miscellaneous stock of cheap information, is posing his audience with catch-questions in rudimentary physics and arithmetic; the solutions, which he has to provide himself, meet with emphatic scepticism from his impromptu pupils, and this attitude the teacher is unable to disturh, heing himself ignorant of the processes leading to his results. The suggestiveness of the whole thing provokes a smile from me, of which I catch an echo on the face of the quiet occupant of a hed in a corner, whose acquaintance I promise myself to cultivate as soon as I am permitted to rise; I had given up

hope of such companionship.

June 1.—I wake during the night with a burning pain in the chest, which prevents me from sleeping, or from remaining still, for over an hour. There is no indication of it in the

morning on waking. Temperature 36 6° C. (=97.9° F.).

I may note here that from 6 to 7 A.M. the ward is swept and the heds made, those who are able to turn out and help doing so. At 7 a ration of soup is served. About 7.30 the milk, tisane, and wine are portioned out, the two former still hot from the boiling. From 7.30 to 8, toilet-operations take place, the convalescent hetaking themselves to a lavatory outside the ward.

All albuminous traces having disappeared, I am to be allowed solid food to-day. The progress to a full diet is effected through two stages; of these the first includes at each meal a clear soup and a small portion of veal or mutton, or a boiled egg, with some vegetable; while the milk is reduced to one litre. The second is identical, with the subtitude of the litre of the litre. stitution of a small allowance of wine for half the quantity of milk. For the convalescent and final stage the portions are larger, though the food is of inferior quality and less

well cooked; the wine is donhled and the milk cut off.

'My first meal, consisting of tapioca-soup, vcal, and lentils, is a disagreeable surprise. The meat is of a toughness to

test the appetite of a Milo, and in my low state not only causes me a painful effort to masticate, hut leaves me an aching jaw for a reminder. My difficulties are not lightened hy the discovery that no knives are provided. I am indehte to a fellow-patient for the loan of a clasp-knife. A single plate suffices for the whole repast, and the forks and spoons are villainously ancient and distorted. My conscience is ready enough to reproach me for my discontent, but it nowise deters me from writing for a knife, fork, and spoon, with a few other like luxuries.

For the evening meal I am given vermicelli-soup, a hoiled egg, and haricot heans. Egg-cups are as little known as knives, but the mouth of a wine-flask serves the pnrpose

admirahly.

To day a mechanical record is taken of my heart's action, the well-marked character of the "gallop" in my case offering a favourable opportunity. The apparatns for the purpose, though delicately fashioned, is extremely simple in operation. It includes two instruments, an automatic auscultator, and a revolving cylinder for receiving the indica-tions on lamphlack; of these the first is furnished with two knohs mounted on delicate springs, for application respectively to the heart and pulse; the pulsations are communicated automatically, hy means of pneumatic tubes, to two pointed styles, which register their vihrations on the revolving cylinder. The heart and pulse heing taken simultaneously, the resulting curves appear side hy side for comparison on the receiver. Both auricular and ventricular pulsations of the heart are recorded.

June 2.—I am again tronhled during the night by the pain in the chest; the torture is intense during the time it lasts. I intend to mention the matter to the doctors, hnt neither of them appears during the day. Temperature, 36.4° C. (= 97.5° F.). The dose of ammoninm acetate is discontinued. The food varies little, and does not tempt my still dormant appetite I take the opportunity of purchasing hread from the cantinière to replace the coarse variety supplied in the hospital.

June 3.—I am beginning to look for my nightly awakening as for a haunting hohgohlin. It comes this morning at ahont 2.30 A.M. So unendurable is it in hed that I find the strength to rise and walk the ward for an hour, without the effect, however, of easing the pain. Sleep overtakes me at 4. To make sure of the doctor, I send for him in the morning; he prescribes a dose of 3 grammes of sodinm hromide in solution, to be taken at intervals. Temperature,

 $36.4^{\circ}$  C. (=  $97.5^{\circ}$  F.)

About midday a young female patient from some other hospital is sent here as suffering from a severe attack of scarlet fever. She is placed in the women's ward, hnt after lying there for half an hour the doctor, who has heen snmmoned, pronounces her to he in a critical condition of cholera. She is immediately removed to an isolated room, and friction is employed to restore circulation in the limbs, which are frigid. During this operation the poor girl emits fearful howls, resembling those of some wild monster in pain, which find their way to the remotest corners. One cannot hut wish for her a swift release, and it is not long in coming, for she dies ahout three hours after her entrance. Though she nndonhtedly had scarlet fever at the same time, the misconception at the other hospital is mysterious. It has probably contributed to the fatal end.

I get up for the first time this afternoon, and feel the hetter for the few hours out of hed. I make the acquaintance of the patient who attracted my attention some days ago, and enjoy a chat with him. Our talk is for the ago, and enjoy a chat with him. Our talk is for the greater part of things French. He takes my inculrations very well—almost too well. One is inclined to distrust one's views when one finds them taken up too willingly. We form a league of two for self-defence in the matter of meals, onr plans taking this form :--We decide, on reaching the second stage of diet, to advance no higher in the scale, as the cuisine is ostensihly inferior, and we prefer to keep the evils that we have. The portions being small, we agree to supplement our repasts with delicacies to be obtained through the medium of the eantinière. By these means we hope to get through the remaining period of our confinement in relative luxury.

My portmanteau is sent to me to-day, filled with hooks and other necessaries. It draws down on me the ever-eloquent wrath of the patronne, such impedimenta heing against the rules. I am eventually permitted to retain it—not [without an examination of its contents—and stow it

underneath the bed.

There is a tiny disused garden at the back, appropriated by the patients for their use, where I sit for a while in the afternoon. The prospect is uninviting, and the weather dubious, but to enjoy the open air again is ample inducement to linger.

June 4.—I pass a good night, the drug having presumably operated to charm away my "ghost." Temperature 36 2° C.

(=97·2° F.)

Two new patients enter to day, a corresponding number, as usual, being told off into the smaller room, which is now again full. The number of new-comers has been seven in the nine days of my stay. This proportion, I am told, is unusual; but if it continue my exit cannot long be delayed.

June 5.—This morning I get up early. My temporature is no longer taken, and I am promoted to the wine stage. I spend the morning in the back garden, sitting in the blazing sun; I attempt to read, but the sun peremptorily forbids; in compensation, he bears me gradually into that delicious region of half-conscious drowsiness attainable only by his ardent votaries. Happy they who have leisure for sunworship in these days. Humanity in the mass is given to enjoying the sun by keeping in the shade, and remains in ignorance of more Lethean felicity.

This afternoon a benevolent elderly lady, known as "the Countess," pays what I understand is a periodical visit to the wards. She has a few words for each patient, with small gifts of chocolate, tobacco, and twenty-centime silver pieces. These last must be some source of trouble to the giver, for she is evidently fearful of offending dignities. I am rated at a chocolate stick. I should have liked a two-

penny-bit, having no dignity worth speaking of.

The circumstance that my skin shows no signs of shedding itself causes me some apprehension as to the probable length of my stay; the doctor remarks encouragingly that I

have plenty of time before me.

June 6.—Some friends are kind enough to send me dainties of various descriptions, which are the more acceptable as my appetite commences to revive. My friend and I, through the cantinière, succeed in obtaining sundry other delicacies to supplement our meagre dole, and our meals assume a picnicky form not without its delights. As one or the other takes the duty of fetching the plates, we contrive by filching extra plates to avoid the inconvenience of eating off a single one such diverse items as soup, meat, sardines, cheese, jam, and fruit.

A chat with one of the porters elicits the information that the superintendent enjoys a salary of 50f. per month, while attendants and porters receive 29f. These salaries seem to me miserably insufficient, particularly the former, which is scarcely more than that of a domestic servant in London. The food provided for our wards is, it appears, of three qualities—the best being reserved for the patronne, who dines in solitary grandeur, the second for the porters and attendants, and the last (and worst) for the unhappy

patients.

June 7.—I take a potassium-carbonate bath to induce peeling, but it bas little effect beyond that of rendering me

exceedingly weak.

June 8.—I converse a little with the cholera patients, whom I meet in the back garden. They are now well out of danger. Both frequented a certain cheap restaurant in the Rue St. Denis, but neither attributed to it the source of his attack till they compared notes here. They are to be transferred to a convalescent-hospital in two days.

June 9.—To-day four patients are discharged on their application, though not one of them has terminated his

nominal period of isolation.

June 10.—My friend, who is peeling very little, and myself, encouraged by example, resolve to apply for permission to

depart in a week's time.

An amusing incident occurs after hours. An animated conversation is being carried on from bed to bed, when at 9.30 P.M. the patronne, returning from a walk and hearing voices, makes a descent upon us, and belabours us unmercifully with that matchess tongue of hers. Her discourse is of the hospital, its traditions and regulations. A conversation at that hour is unbeard of, therefore unholy. This variation of the universal shibboleth is new to me, though I

have met with it under innumerable forms. From the shop to the senate-house, from China to Peru, one finds installed in power this fictitious high authority, beyond whom there is no appeal—the necessary corollary, as I take it, to the scarcity, to say nothing of the fallibility, of human reason.

June 11.—There are rumours this morning that our ward

June 11.—There are rumours this morning that our ward is required by the hospital manager for non-contagious cases, and that to make place for them we are to be transferred to another hospital. This gives me high hopes of immediate departure. I am peeling slightly, on the feet only.

June 12.— Yesterday's rumours are certainties. The doctors examine each patient carefully to decide whether he be discharged or transferred, and in my case alone is the result sufficiently satisfactory for the former verdict.

I am to pass my period of convalescence in the country. I receive numerous directions from the doctors, which I intend to carry out after that favourite text of modern theologians, "The letter killeth, but the spirit giveth life."

The other patients take their departure in a hospital conveyance, and I shortly afterwards follow their example, with greater safety, on foot, after a cordial handsbake with the patronne and attendants. I leave with none but the warmest feelings towards all those who have had the care of me during my illness, but with, nevertheless, the sincerest hope that it may never again fall to me to be confined within the walls of a French hospital.

#### Trade Hotes.

MESSRS. C. BARRY & Co. Finsbury, London, have patented an extract of cocoa in compressed tablets, which they bring into trade in sixpenny and shilling cardboard boxes, containing eighteen and thirty-six tablets of the shape and size of the pieces used in playing draughts. The preparation has been named "Boisselier's Cocoagene." A tablet is the quantity required for making a cup of cocoa, and, the preparation being unsweetened, sugar should be added, with milk or water to taste. The cocoa used for these tablets is of fine quality and very pure, and as put up is an attractive novelty.

WE have received from Messrs. May & Baker, Church Road, Battersea, a sample of pale boiled linseed oil, prepared according to the process introduced and patented by Professor Hartley, F.R.S., and Mr. W. E. Blenkinsop. The oil is obviously far superior to that prepared by the old process, being quite as pale in colour as ordinary raw oil, and free from the very rank odour associated with so many boiled oils. It is free from chlorophyll and lead, and the absence of the latter will prove very advantageous to painters using lead-free colours, no discoloration being likely to ensue after contact with the air. The oil is said to dry in 15 hours, and it should be of special value in the preparation of light-coloured paints.

MESSRS. WM. R. WARNER & Co., of Philadelphia, after the exhibition at Rome in May last, presented a case of the medicines which they had exhibited to the King of Italy, and have since received the following acknowledgment:—

Office of the MINISTER TO THE ROYAL HOUSE,

Sceretary to His Majesty the King.

Roma, June 22, 1894. (Translation.)

I have very willingly discharged the commission confided to me by Messrs. Beechini & Tanfani, the representatives of your house in Italy, offering to H. M. the King, the case of medicines sent by you as a homage. Our august Sovereign has worthily appreciated the philanthropic object intended by it in the fact of your activity and your scientific studies being directed to the improvement of an industry so useful to mankind. I therefore comply with the King's desire by tendering to you the thanks of the Sovereign for the noble act of devotion performed by you, and take pleasure in availing myself of this opportunity, dear sir, to present to you my most distinguished consideration.

(Signed). THE REGERT MINISTER OF THE ROYAL HOUSE.
Lieutenant-General E. POUGEO DAGLIO.
To the illustrious Wm. R. Warner, Philadelphia.

GUATACOL is now recommended for the treatment of neuralgia, sciatica, and rbeumatism. A mixture of equal parts of it and glycerine is painted on the parts affected.

GOLD MEDALS 1884-1885-1886-1888.

Kingzett's Sulphur Canales & Sulphugators, Preserved Peroxide of Hydrogen. Mercuric Bactericide, Eucalyptus Oils.

Price Lists and Pamphlets Free. THE SANITAS CO., LIM., Bethnal Green, LONDON, E.

**ELLIS**'

"The water is of first-class organic purity, and the quality of the gas is excellent."—J. Alfred Wanklyn, M.R.O.S., Prof. of Chem.

# TABLE

"Absolutely Pure."-A. URE, M.D., F.R.S., L. THOMPSON, M.R.S., Analytical Chemists.

R. ELLIS & SON, RUTHIN, NORTH WALES. London Agents: W. BEST & SONS, Henrietta Street, Cavendish Square

ABSOLUTELY PURE ESSENTIAL OILS.

TODD'S DOUBLE PEPPERMINT, &c. REFINED

See Advertisement, page 31 (bottom folio).

TRADE MARK REGISTRATIONS.

(Home, Foreign, and Colonial.)

MODERATE INCLUSIVE FEES

SEARCHES. REPORTS. DESIGNS.

T. B. BROWNE, 163 QUEEN VICTORIA ST., E C.

OLDEST ENGLISH & AMERICAN CHEMIST in PARIS (founded 1808)

iate 🕞

Place Vendôme, Corner of rue St-Honore would undertake one or two additional agencies for patent Medicines, Sundries, et Special connexion amongst Doctors in Paris & Provinces.

# HAND WEIGHED HOWARD'S SEIDLITZ per Gross. HORA & CO., 47 Minories, LONDON.

Mixes with Water. Certain and Pleasant.

THE BEST OBTAINABLE?

" A great Improvement."

PLEASE SEND FOR PRICE

Through any Wholesale House, or from the ONLY MAKERS-

MOSS 82 COMPANY. JOHN Galen Works, New Cross Road, LONDON, S.E.

#### MEDICAL ELECTRICITY.

EVERY DESCRIPTION OF

Galvanic, Faradaic, and Electro-Magnetic Machines and Electrodes, Galvano-Cauter, and Lighting Instruments.

Lists Free. Descriptive Catalogue, 100 Illustrations, 32 pages, 4 stamps.

& CO., LEICESTER. GENT

#### PATENTS, DESIGNS, & TRADE MARKS.

Searches effected through the Classified Volumes of the Society free of charge. Registrations throughout the world. Advice as to intringements preliminary to litigation. Apply—

MARK SOCIETY, LIMITED, 1 FUBNIVAL STREET, EC.

#### Medical Press and Circular.

 $\boldsymbol{B}^{\scriptscriptstyle Y}$  the use of Fletcher's Concentrated Liquors all the trouble and annoyance of variety of colour and strength, which is so frequent in our fresh infusions, is avoided, and this, so far as we could trace, WITHOUT ANY SACRIFICE IN THE THERAPEUTIC POWER OF THE DRUG, OR IN THE PHYSICAL CHARACTERS OF THE PREPARATION."

# Editorial Comments.

#### THE NITROGENIC MYSTERY.

THE "New Element" sensation has pretty well fallen to pieces. After all, Mr. Maxim's flying-machine paper may perhaps have been the most important contribution to the British Association meeting of 1894. If Lord Rayleigh's paper, read to the Chemistry Section, had been simply entitled "An Allotropic Form of Nitrogen," it would have interested chemists, no doubt, but it would never have attracted more than a stony stare from the great, stupid public. This, however, in all probability is the nature of the gas which Lord Rayleigh and Professor Ramsay have bottled. Mr. Wanklyn has written to a number of papers stating that "chemists with much practical experience in carrying on analytical operations upon gases will not fail to perceive that the formation of traces of nitrous oxide, either by the action of the electric spark or of the heated magnesium, would account for everything as yet published by Rayleigh and Ramsay on the subject." This is a very prosaic explanation of the phenomena described, and it can hardly be supposed that such skilful experimenters as Rayleigh and

Ramsay have been deceived in such a crude way as Mr. Wanklyn suggests. Besides, the principal characteristics of their new gas is its extraordinary inertness. Does Mr. Wanklyn allege that a mixture of nitrogen and nitrous oxide gas would be more inert than nitrogen gas alone? Professor Dewar, too, has written a second letter to the Times, in which he says the experimental results can be easily explained by assuming that when nitrogen enters into chemical combination with another substance, whether oxygen, as in Lord Rayleigh's plan of working, or magnesium, as in that of Professor Ramsay, a small portion of the gas is condensed molecularly into an allotropic form, having one-and-a-half times its normal density. This is analogous to the transition of oxygen into ozone, and though it appears that electrical discharges acting alone upon nitrogen do not condense it, it is well known that electrical stimulation of nitrogen does produce two distinct spectra, presumably due to different molecular conditions. Professor Dewar thinks it probable that the new substance is manufactured by the experimenters, and not separated, as they imagine, from the ordinary air. This, he adds, is not the first time that chemists and physicists have been tempted to believe in the production of an allotropic form of nitrogen, and to accept it as explaining certain curious phenomena, but hitherto the assumption has always broken down on more careful investigation. This time it may be hoped the elusive allotropic form has been fairly captured.

It is a circumstance worth noting that this discovery probably developed from the interesting observations of Lord Rayleigh's which we commented on nearly two years ago (Nov. 26, 1892). He had found that nitrogen obtained from the air by passing the latter through a wash-bottle of ammonia and afterwards through a tube of metallic copper, was  $\frac{1}{1000}$ th part lighter than if obtained by passing it over metallic copper alone. He suggested then that the difference might be due to the nitrogen being in a different state. His experiments were some what ridiculed at the time, and it was then that Professor Ramsay expressed the opinion that Lord Rayleigh was too careful an investigator to have made an error, and repeated and confirmed his experiments.

If the allotropic condition of nitrogen should be established as a fact, the term "nitrone" would seem to suggest itself as a suitable name for the heavier gas.

#### THE QUININE MARKET.

THE long-expected advance in the quotations of quinine took place a few days ago, when the three German manufacturers, Messrs. Böhringer & Soehne, Zimmer & Co. (also controlling the "Jobst" brand), and the Averbach Quinine-works, raised their wholesale quotations from 1s. 1d to 1s. 2d. per oz. for snlphate of quinine in tins, an advance of 1d. per oz. Up to the present, we believe, the rise applies only to the quotations in Europe. In the United States the prices remain unchanged, but it is expected that the American market, which is an important one for all the manufacturers, will shortly be brought into harmony with that at home. The move has given a mild stimulus to the commercial position of the drng, and during the week several second-hand parcels have changed hands in London at slightly advancing rates. As always happens when the quinine-market is in an unusually sensitive condition, the voice of the circularist has been heard in the land. This time the cry of warning comes from a German firm, which, we feel bound to say, enjoys unusual opportunities of forming a sound judgment on the position of the drug. A communication from that house was placed in our hands at the beginning of this month; but for several reasons we decided not to make use of it until the

manufacturers should have made the alteration in their official quotation which was even then expected, and the imminence of which we hinted at in our market-report several weeks ago. The circular, which is a semi-private one, is headed "The Future of the Quinine-market," and has for its object the demonstration that the stock of second-hand quinine and of quininc-yielding has been reduced to such a degree, and the supplies of cinchona-bark from Java are falling off so materially, that we may at any time find ourselves confronted with a positive scarcity of the indispensable drug. Without taking quite so serious a view of the position of quinine as does the writer of the circular, we agree with him that the known supply of the drug in second hands is by no means an excessive one in view of the present low price of the article. The declared stock in London on August 1 had fallen to 3,027,728 oz, while in New York according to a statement in an American contemporary devoted to the drug-trade, the stock is variously estimated at from three to six months' supply. As the quinine-importation of the United States has lately averaged about 3,000,000 oz. a year, this estimate may be translated as signifying a stock of between 750,000 and 1,500,000 cz. Many odd second-hand lots are held in various continental and other centres; but their total is probably not large enough to affect the course of the market to a considerable degree in any circumstances, and it may be assumed that the continental holdings have also been sensibly diminished in the course of the last twelve months.

The London stock of bark at the present time is estimated by Messrs. Jenkin & Phillips, who have always devoted great attention to this subject, at a total of 32,427 packages, of which 13,000 consist of practically worthless cuprea, soft Colombian, and Pitayo barks from South America, imported many years ago, and which are scarcely worth counting in an estimate of the available material. The London quinine-holding stock such material is, therefore, now practically only one-half of what it was in the summer of 1891. At that time the bark-unit stood at  $1\frac{1}{8}d$  per lb., and second-hand quinine sold at 11d. per oz.—that is to say, bark was then about 15 per cent. higher and quinine about 8 per cent. lower in price than at present. The manufacturers, therefore, are now working under much more favourable conditions than they were three years ago, and this is in a great measure due to the more or less avowed understanding into which they have lately entered. In the German firm's communica tion it is suggested that this understanding was forced upon the quinine-makers by circumstances outside their own control; but whether they have deliberately entered into a combination, or helplessly drifted into one, it is certain that their concerted action has been very beneficial to them. The senseless competition of two or three German firms, during which dealers and speculators were over-burdened with an ever-depreciating and unmanageable hoard of quinine for which no legitimate outlet could be found, has ceased, and in its place there has been inaugurated a system under which speculation is discouraged, second-hand stocks are slowly wiped out, and a small number of makers are gradually reestablishing a certain measure of control over the market.

The writer of the circular proceeds to give figures intended to show that the bark supplies from Java are also diminishing. This portion of his argument rests mainly upon the statement that cinchona-bark stock in Amsterdam has decreased from 12,619 packages on July 1, 1893, to 11,736 packages on July 1, 1894, and that the exports from Java in June of this year have been only 455,000 half-kilos, against 787,129 in June, 1893, and 667,897 half-kilos. in June

We confess that this portion of the firm's argument appears to us rather weak. The stock reduction in Amsterdam is too small to afford much real consolation to the quinine-holder, at any rate at present; and the monthly shipments of cinchona-bark from Java are notoriously so variable that it is unwarrantable to assume that, because they show a considerable diminution in one single month, or even in an arbitrarily-chosen period of six months, the production of the island is really seriously on the decline. It is true that nntil the spring of this year there seemed every reason for thinking that the output of the great Dutch colony had really passed its zenith; but since then the estimates of the Java Cinchona Planters' Association, of which we gave particnlars a few months ago, have cut away the ground for believing that such is the case. So long as these figures remain unchallenged there is no hope for the expectation that the quinine-market will receive any stimulus from a greatly-decreased production in Java, and it certainly does not look as if the ninety odd planters who are still interested in cinchona-growing in that island possess sufficient power of co-operation to establish a syndicate which would keep a tight hand npon the supplies and regulate the scattered offerings at the Amsterdam auctions. But, even without any immediate decrease of the Java production, we consider the present position of quinine a fairly sound one—not, indeed, sufficiently so to warrant a rapid increase upon the present quotations, but quite good enough for a further moderate and very gradual improvement in price.

#### INVENTIONS IN PHARMACY.

THE almost savage attack on pharmaceutical novelties and their mannfacturers, which formed so large a part of the address from the chair of the Pharmaceutical Conference, coincided with a more amiable, but not less sweeping criticism of the same sort of enterprise from the pen of Sir B. W. Richardson in the Asolepiad.

No one can be blind to the fact, says Sir Benjamin, that the gentlemen who are engaged in pharmaceutical work are becoming aggressive therapeutists. Every morning onr breakfast-tables are treated with letters, cards, brochures, and bottled or boxed specimens of some new remedy which some medically unqualified chemist has brought out in a new and, as the inventor thinks, attractive form. The virtues of and, as the inventor thinks, attractive form. the new article are set forth in the educational style, as if the reader were a mere novice or tyro in the matter. Last week I had seven of these effusions. Once I had one referring to a therapeutical substance which I myself introduced into practice, with a description of its properties, drawn directly from my first paper on it, but so drawn that a new medicine introducing a new principle of practice seemed to have been described. These new remedial substances are sometimes favorred by medical men themselves, who, on the most ridiculous and ad captandum observation, give testimonials as to to their efficacy. The influence of the pharmacist in this direction is becoming very great, and is extending so fast that for one claimant to public attention ten years ago there are a hundred at this time. These affect the public so favourably that it appears to be, and in fact is, to the interest of every pharmacist to have his own special remedy for some one kind of disease at least. Where this will end, if it goes on unchecked, no one can foresee. It is far more dangerous to the republic of medicine, represented by its duly qualified practitioners, than any counter prescribing; and it is far too serious a danger to be allowed to develop itself ad libitum.

Seriously, what does the terror of this usually levelheaded physician arise from? He has no objection, we are certain, to novelties in pharmacy or medicine *per se*, for he is himself responsible for several. So long as he received only one sample a week he had no alarm, but seven in one

week drags from him this bitter cry that this is "far too serious a danger to be allowed to develop itself ad libitum." The only alternative, so far as we can see, is an Act of Parliament making it penal to send a sample of a new pharmaceutical product to a physician. Surely Sir B. Richardson has a sufficiently keen sense of hnmour to realise the absurdity of any such proposal as that, bnt, if so, does he not see that his complaint and protest are ridiculous? Physicians are either capable of distinguishing the useful inventions in pharmacy from the worthless ones submitted to them, or they are not. Which horn of the dilemma does the editor of the Asclepiad choose to be impaled npon?

#### OLEUM LIMONIS.

No essential oil possesses a greater interest for both the pharmacist and the public than oil of lemon, and, unfortnnately, no oil is more liable to rapid deterioration. The predisposing canses and the methods of prevention of this deterioration are subjects of interest, particularly the latter, which is, perhaps, more easy of solution than the former, and at the same time, to the retail pharmacist, of more practical value. Spite of the many investigations of recent years, the canse of the rapid deterioration of oil of lemon is still very obscnre, the vague term "oxidation" nsually serving to cover the chemist's ignorance. Many are inclined to put it down to adulteration and careless manufacture; but it is safe to assert that while in some few cases these may be the canses, in the greater majority the deterioration is dne to the carelessness with which the retail chemist stores his product. And in this connection a few hints as to the precautions to adopt may not be out of place. An essential oil is a substance which cannot be too carefully handled, and oil of lemon is perhaps the one which requires most careful treatment. Three things in particular may be predisposing causes of decomposition in an essential oil, and particularly in the case of this oil-namely, heat, light, and air. In the presence of these rapid deterioration and loss of aroma is snre to follow. And how often in the average retail pharmacy do we not find that the essential-oil bottles are relegated to one of the top shelves, the place of all most likely to accelerate decomposition; or, possibly, stored on a shelf where they get the full benefit of the sun's rays, a force which the pharmacist is too apt to neglect in storing his drugs. Light is often quite as active a factor in cansing chemical change as heat. Exposure to such influences will spoil even the best of oils. As to the precautions to adopt-firstly, the oil should be stored in a cool place, the cooler the better, and no bottle should ever be used a second time without being carefully cleaned and dried. The presence of a few drops of old oil will often suffice to turn rancid a large amount of fresh oil, acting almost like a ferment, and even if it does not go so far as to become rancid, loss of aroma is sure to result. Secondly, the influence of light and air should be carefully guarded against. Air may be excluded by putting the oil in small bottles, completely filled and hermetically sealed, while lightmay be counteracted by using actinic bottles and keeping in the dark. An extremely useful method of aiding preservation is to mix about 5 per cent. of deodorised absolute alcohol with the oil, allowing to stand and decanting when clear, or the method may be varied by adding 1 oz. of alcohol toeach pound of oil, shaking, and then adding 1 oz. of water. The water withdraws the alcohol from the oil and collects at the bottom of the bottle, where it may be allowed to remain till the oil is used, an occasional shake being advantageous. Oil of lemon so treated will keep good for any

reasonable length of time. Another matter of importance is the question of adulteration and the detection of adulterants. Mr. Barrett, of Messina, in a paper communicated to the Conference, shows how valueless are the tests in common use, particularly of the polarimetric examination. This fact has been known for some time to English chemists, and such tests have of late years been abandoned here, though from Mr. Barrett's paper it seems that the manufacturers still use them. The gravest adulteration is, of course, that with turpentine, and its detection is a matter of great difficulty-in fact, with the old tests it is practically impossible, if judicious selection of the variety of turpentine to use were made. Mr. Barrett points out that what is wanted is a chemical test; but he does not indicate the direction in which it is to be looked for, and does not mention-indeed seems unaware of-the chemical tests mostly used at present These consist in the determination of the ester, iodine, and saponification numbers, figures which are based on the fact that certain definite substances are present in the oil and usually in fairly constant quantity even in different samples. It is true we do not yet know exactly what these various substances are; but that detracts little, if any, from the value of the determination, which in the present state of our knowledge of these substances is as satisfactory as can be expected. A determination of these in a genuine sample of oil will give numbers that will serve fairly accurately to detect any appreciable amount of adulteration in other samples. The figures are ascertained easily and rapidly, and are much more reliable than any obtained by the use either of the oleo-refractometer or polarimeter. They are, in fact, the chemical tests, as far as can at present be obtained, for which Mr. Barrett, apparently, has been looking.

#### AN, EDIBLE FUNGUS.

It has long been known that certain fungi, other than the popular mushroom, form edible and palatable dishes when cooked. Berkeley, the great fungologist, was a great advocate of these dishes. The English Mechanic recommends one fungus in particular as forming a most palatable food when cooked, "scarcely to be distinguished from broiled meat." This is the common fungus, Festulina Hepatica, so often seen in our forests, and resembling a great red tongue protruding from the tree trunk. When young it is a dull, pale, purplish red, becoming more red and passing through brown to black as it grows and decays. It is usually found on old oaks, but is common in Epping Forest on the beech, and is also found on other trees. The growth is extremely rapid, and the fungus often attains a weight of 5 or 6 lbs. When cut it exudes a copious red juice like beef gravy, and Berkeley described it as one of the best things he ever ate when skilfully cooked. There is a slight acid flavour, which adds much to the piquancy of the dish. It should be gathered when quite young and fresh, and at once prepared for the table.

#### CHEAP PHYSIC.

The Medical Times says it will be news to many medical men, and possibly also, we may add, to chemists, to be told that there is an association of warehousemen, travellers, and clerks for providing its members with cheap physic. The medical staff, we understand, numbers some of the leading general practitioners in London among its members, and these receive about 4s. per annum per head. The members of the club have also secured the services of some homeopathic doctors on similar terms, and also several hospital physicians and surgeons to consult with the lesser lights when occasion requires. Our contemporary suggests that the Royal College of Physicians should be approached on the matter, and the question raised whether it is justifiable to

attend, as club members, commercial travellers, and the like, many of whom get salaries amounting to 200*l*. or 300*l*. a year. The question also suggests itself whether allopathic physicians are justified in thus colleaguing with representatives of the rival firm. As the 4*s*. appears to include medicine as well, the conspiracy may be thought to affect chemists as well as the medical profession; but it will really tell the other way. Physic-taking, like most other things, needs educating to. These clubs teach people the luxury of always having some medicine handy. Once got into the habit, they can never get out of it, and pharmacy prospers accordingly.

#### A LEMONADE ANALYSIS.

An American mineral-water manufacturer had been summoned for selling adulterated lemonade, and Professor Fennel, an eminent analyst, had been called for the prosecution. An American daily, the *Cincinnati Star*, describes the scene in court thus:—

Professor Fennel was instructed to make an examination of the lemonade before the jury, and taking out his various apparatus, began the task. He lit his lamps, filled and refilled his little tubes, made tests and counter-tests, explaining each step carefully to the jury, who were all attention. First came the test for lemon, and after working over twenty minutes it was clearly proved that there was no lemon in the combination.

"Can you find any trace of lemon?" was asked.

"No, sir," answered Professor Fennel; "there is no trace whatever of lemon. There has not been any lemon near this concoction."

Then came the test for citric acid, but no trace of it was found. Then came the regular analysis of the lemonade, when a startling state of affairs was made plain. Ninety-three per cent. was water, 6.6 per cent. sugar and \( \frac{70}{100} \) ths per cent. tartaric acid, the latter being used to give the lemon flavour. The defence made an unsuccessful effort to show the absence of the tartaric acid, and to substitute the citric acid, but the jury was convinced. Chemist Fennel then took the lemonade and brought ont the various acids. He showed the awful effects of the tartaric acid, which is composed of a large percentage of nitrate of silver. By means of chemicals, Professor Fennel brought out the nitrate of silver in a startling manner.

After securing a quantity of the silver from the tartaric acid, he washed a piece of glass-tubing in the solution and placed before the jury a finished and complete mirror. It was a fitting end to the chemical analysis, and carried conviction.

"What effect would the tartaric acid have on the stomach?" was asked.

"It would simply burn the stomach, and if placed in the stomach in large quantities would result fatally."

#### "THE PROGRESSIVE PHYSICIAN."

The St. James's Gazette of August 22 goes for this gentleman. The "progressive physician" may be understood to be the medical practitioner who keeps abreast of modern knowledge, but the class of doctors to whom the term would be generally applied are those who take up and exploit the latest fads in medicine; "the essence of the business being self-advertisement" and that too of a type which the Medical Council is powerless to stop. One method is to invent a new disease caused by "modern conditions of life" such as the agitation of mind caused by crossing much-frequented spots in London which the specialist calls "Mansion-House tremor;" or a new affection of the muscles developed in unskilful golf-players and immortalised under the title of "bunker spasm." Another way is to apply modern science to revealing the awful dangers that beset our daily life-for instance, by estimating the number of microbes that may be scraped up off the floor of a four-wheeler, while a more refined plan is to write articles (signed of course) on some "progressive" medical topic in the monthly periodicals. Subjects such as "City worry" or "Train fag" are suitable, and it

may be some innocent people are taken in by the scare. The progressive physician takes mesmerlsm and furbishes it up, and runs it as hypnotism; he does the same with rubbing and calls it massage, baths become balneo-therapeutics, and so with a score of other "cnres" connected with diet, dress, air, water and all the common circumstances of life. All, or nearly all, of these rest on some truth and possess some value; they are not pure quackery, but have their proper use and are by no means the exclusive property of the progressive physician. He throws a theatrical air over what is to his colleagues merely an item in their professional equipment, makes a fad of it, and elevates it—if he can—into a fashionable craze; bimself riding to fame and fortune on the back of bis own creation. A case in point is the treatment by "massage," of which so much has been heard lately.

#### COMPLICATED DISPENSING.

The following prescriptions, quoted from the Western Druggist, are good examples of what the Americans term the "sbot gun" prescription:—

Iodoform			••	 8.0
Creosote, beech				 10.0
Ac. tannici				 12.0
Ac. benzoici				 13.0
Menthol		••		 2.0
Syr. pinus alb. co	0			 38.0
Syr, balsam peru				 30.0
Barium sulph.			• •	 4.0
Pepsin hydroch.				 6.0
Terraline q. s. ft	emulsio			 240.0

It will be noticed that the prescribing of several proprietary articles increases the complexity of the mixture. The use of barium sulphate internally, together with iodoform, is decidedly novel.

The second mixture is even more complicated:—

Acidi sulphur. a	rom.		• • .		 fl.dr.ivss.
Zinci oxide				••	 gr.xx.
Syrupi phosphat	es co.				 fl.3ij.
Pot. permang					 gr.iij.
Quininæ		••			 3ss.
Tr. cinchon. co.					 fl.Jij.
Tr. hyoscyami			••		 fl.dr.iiss.
Ext. nuc. vom.					 gr.ix.
Syr. ferri pyropli	ios.				 fl.3j.
01					 fl.3j.
Lactopeptin					 5j.
Tr. gentian .					fl. 3 jss.
Com amantii			••		fl.3ij.
Aquam				a.	fl. 0z. 12

The incompatibles here are numerons; the mixture would probably explode before it was finished, owing to the combination of the permanganate with organic matter, particularly with glycerine, with which it reacts violently. If dissolved before adding the glycerine, the permanganate would destroy most of the organic matter present.

#### NEATSFOOT OIL. By E. J. Parry, B.Sc.

Come short time ago I was in need of some information concerning this oil, and was somewhat disappointed at the very scanty information available on consulting the best known authorities. The fact that the oil has not a very extensive use partially accounts for this, but I imagine the difficulty of obtaining reliable samples is also partly responsible for it. Hence I found it the easiest way to get the required data from my own work. I therefore obtained seven samples of oil purporting to be neatsfoot oil, out of which six were most decidedly adulterated. The remaining

sample, however, was, I am convinced, perfectly pure. It came from one of the most reliable sources in the trade, and answered in every respect to the accounts given—although these are very sparse—in the usual text-books.

Neatsfoot oil is obtained from the feet and hoofs of various animals, and finds its chief application in leather-dressing and in lubricating machinery exposed to low temperatures. According to Allen it is "yellowish, odourless, with a bland taste, not liable to become rancid." In commerce it is said to be often adulterated with bone oil, lard oil, and fish oils. It consists of a large proportion of tri-olein, with variable proportions of the solid glycerides, such as those of palmitic, stearic, or higher fatty acids. The oil bas fairly bigh viscosity, becoming very thick when cooled to about to about 0° C., but passing through a pasty or semi-solid condition so gradually as almost to preclude the mention of a distinct "solidifying-point." The oil does not again become clear nntil a fairly bigh temperature is reached, on account of the separation of the solid glycerides. The following figures were obtained for the oil:-Specific gravity at 155° C., ·9163; saponification equivalent, 291; percentage of KOH for saponification, 18.9; rise of temperature with H2SO4 (Maumené), 51° C.; iodine absorption, 652; viscosity at 140° F., 74 (74.5); valenta turbidity, 112° C. (112° C.). A large amount (about 50 grammes) of the oil was saponified, and the fatty acids, after careful purification, were examined, with the following results:-Specific gravity at 15.5° C., 9165; specific gravity at 40° C., 8870; iodine absorption, 68.4; mean combining-weight, 292; melting-point of fatty acids, 30° C. The pure fatty acids were at ordinary temperatures almost white, with a crystalline structure, quite odourless, and practically tasteless. Under the microscope tbey showed a needle-like structure.

The iodine-absorption was carried out by Hübl's process, and the resulting iodo-compounds were of very light colour when dissolved in chloroform, darker when pure, and not liberating iodine at 212°.

The combining-weights of the fatty acids were calculated from three determinations, of which the latter two were exactly concordant, viz.:—190, 192, and 192 per cent. of KOH to neutralise.

The mixed acids, consisting of about 75 per cent. of oleic and 25 per cent. of other fatty acids, commenced melting at a somewhat lower temperature than that above mentioned, but were not entirely fluid until 30° (taken in a very narrow capillary tube).

The mean combining-weight of the acids shows that there are present fatty acids of a higher molecular weight than oleic acid, and these, of course, of high melting-point, such as arachidic acid. The viscosity of the oil was taken by Boverton Redwood's viscosimeter. It is quite as high as the viscosity of colza oil. The remaining five samples gave the following figures on analysis:—

-	Valenta.	Sp. gr. at 165° C.	Temp. risc with H <sub>2</sub> SO <sub>4</sub>	Saponification equivalent.	Iodine- absorption.
1 2 3 4 5 6	95° 95° 63° 71°	•9197 •9050 •9220 •9220 •9179 •9174	54° C. 27° C. 68·5° C. 65° C. 55° C. 56° C.	333 314 319	93·5 130·4 84·5 69·0

These figures conclusively show that not one of the samples was neatsfoot oil. Samples 1, 2, 3, 4, 6, all reduced silver nitrate, according to Becchi's test, very strongly, whilst sample No. 5 only slightly reduced it. The pure oil does not reduce it at all. This evidence tends to show the presence of cotton-seed oil. No. 2 contained a large quantity of parafilm.

## Practical Notes and Formula.

#### ESSENTIAL OIL IN PILLS.

THE following is a good suggestion made by E. C. Goetting in the *Pharm. Rundschau* of New York:—Rub 40 drops of essential oil with 20 grains of the best Siam benzoin in a mortar, add 10 grains of powdered borax and 4 drops of glycerine, and mass with liquorice.

#### ODONTODOL FOR TOOTHACHE.

Hydroehlorate of co	caine	 	 gr. xv.
Elder-flower water		 	 mxv.
Tineture of arnica		 	 Siiss.
Mindererus spirit		 	 5v.

#### TEST FOR SANTONIN.

SCHERMER (Nederl. Tidj. v. Pharm.) has observed that if a few granules of santonin and 20 to 30 milligrammes of powdered potassium cyanide be slowly heated in a porcelain capsule until the mass melts, a beautiful red colour will appear, which rapidly changes into brownish yellow. The fused mass yields with water a fluorescent solution—brown by transmitted light and green by reflected light—lasting some time.

#### CHARACTERISTIC TEST FOR LANOLINE.

WARM about 1 gramme of the fat with 2 grammes of calcium bydrate, taking care to avoid charring of the mass. Rub up the mixture, after cooling, with 5 c.c. water, and shake with 5 c.c. chloroform. Run off the chloroform after separation on to the surface of an equal volume of sulphuric acid, when the characteristic deep-red colour of cholesterine is produced at the point of separation.

#### TO RENOVATE SILK HATS AND PLUSH GOODS.

Two substances are necessary—chloroform and vaseline—and the *modus operandi* is as follows:—Wet a sponge with the cbloroform, and with this smooth over the surface of the hat or plush article. While this is drying spread a little of the vaseline on a small piece of plush, and after rubbing the surface of the same on a cloth, again smooth over the surface of the article. The result is astonishing, old battered hats being made to look like new, except for dents and creases, which must be ironed out.

#### GLASS IMPERMEABLE TO HEAT.

DINGLER'S Polytechnisches Journal states that a glass which is almost impermeable to heat can be made of the following materials:—

						Parts
Sand	• •	••	••	• •	 ••	70
Kaolin	••				 ••	25
Soda	••			••	 • •	31

A plate of this glass 7.6 mm. in thickness only allows about 10 per cent. of the total heat of a gas-burner to pass. The glass will prove a great boon to workmen employed in metallurgical operations, where they are obliged to labour near furnaces of a high temperature.

#### TO TRANSFER PRINTS.

Under various fancy names a liquid has been recently brought out by means of which printed pictures can be

transferred to wood, glass, &c.

A preparation answering this purpose may be made by dissolving caustic potash in alcohol, the proportion being about 1 in 10. The prints to be transferred are allowed to soak in this solution a short time, when the potash combining, to a certain extent, with the varnish which is the base of the printer's ink, breaks up the adhesion of the ink, so that it will "set off" when the print is pressed against a suitable surface. Alcohol is used in making the solution instead of water, because it causes less disturbance to the fibres of the paper. The exact strength of the solution and the method of applying pressure must be determined by experience. A letterpress answers well for the latter with small prints.

#### Scientific Notes :

Uhemistry, Pharmacy, Botany, Materia Medica, &c. Original, Selected
and Translated

#### COMPOSITION OF LANOLINE.

M. SANCTIS has found that this fat is principally composed of cerotic and palmitic acids, together with small amounts of caproic and oleic acids and traces of stearic, isovaleric and butyric acids. The fatty acids are present in combination with cholesterine and isocholesterine as ethereal salts and perbaps also with other higher homologous alcohols. No glycerine was found.

#### NEW TEST FOR MORPHINE.

This consists in adding a few drops of a solution of uranium and sodium acetates to the suspected fluid, when a red brown or deep orange colour is developed if morphine is present. The solution is decolorised by acids, while caustic alkali produces an intense red precipitate. As little as 0.000005 gramme can be detected by this reaction, which is not given by other alkaloidal bodies.

#### DETECTION OF COTTON-SEED OIL IN LARD.

E. J. Bevan (Analyst, 19, 88-89) points out that Becchi's silver test is not sufficient to prove the presence of cotton-seed oil as an adulterant. The top portion of gennine lard, whether exposed to the air or stored in bladders, will always give a strong reduction, while the interior part gives no silver reaction. The conclusion is obvious that the reaction is due to oxidation of the lard from contact with air. Samelson (Zeit. Anal. Chem.) comes to the same conclusion, and points out that the iodine absorption is at present the only trustworthy test.

#### CRYOSTASE-A NEW BODY.

A GERMAN chemist, says *Die Natur*, has just discovered a new body which, it appears, possesses the remarkable property of solidifying under the influence of heat and of becoming liquid again at temperatures below zero. This body, which has received the name of cryostase, is obtained by mixing together equal parts of phenol, camphor and saponine, to which is added a slightly smaller quantity of essence of turpentine. Up to the present there has been no product known that possesses this property of liquefying when cold and solidifying when warm; for, although certain bodies, such as albumen, barden at a slightly elevated temperature, it is impossible to bring them back to a liquid state, even under the influence of very low temperatures.

#### SALTS OF DIAZOIMIDE, N.H.

MM. BERTHELOT AND VIEILLE contribute to the Annales de Chimie et de Physique a paper on the ammonium and mercury salts of diazoimide. The ammonium salt, N<sub>3</sub>NH<sub>4</sub>, obtained by the metbod of Curtius is a crystalline salt and is very explosive. With care the crystals may be handled under ordinary conditions. They sublime in vacuo at the ordinary temperature. Their explosive force is very great, a cylinder of copper containing some of the crystals being burst by the explosion. The products of decomposition are ammonia, hydrogen, and nitrogen. If the explosion be conducted in a stout steel cylinder, the pressure developed is sufficient to liquefy the ammonia gas. The mercurous salt of diazoimide.  $N_sHg_2$ , may be obtained by precipitating a dilute solution of the ammonium salt with mercuous nitrate. The precipitate must be very carefully handled owing to its highly explosive nature. The mercuric salt N<sub>6</sub>Hg may be obtained from the mercurons salt by decomposing the latter with sulphuric acid, and treating the solution of diazoimide thus prepared with fresbly precipitated mercuric oxide. The greater part of the salt separates out, but it is somewhat soluble in cold and readily in hot water, and from the latter it crystallises on cooling. It is the most dangerous of the salts yet investigated, being extremely explosive, and the experiments have had to be abandoned owing to accidents to M. Berthelot's assistants. The salt is more sensitive, and therefore more dangerous, than fulminate of mercury and explodes when least expected in a most violent manner. It yields the same volume of gaseous decomposition products as the fulminate.

#### Wills of Decensed Chemists.

The will, with one codicil, of Mr. Charles Haigh, chemist and druggist, of Holmfirth, Yorkshire, who died on April 19, 1894, has been proved at Wakefield District Probate Registry by Mrs. Sarah Ann Haigh, the testator's widow and sole executrix, to whom administration of the estate has been granted, and by whom the gross value of the personalty was sworn at 4181. 5s. 6d. There are no leaseholds.

Mr. William Henry Turner, chemist and druggist, of Church Street, Oswestry, Salop, having died intestate on March 19, 1894, letters of administration to his personal estate have been granted at the Shrewsbury District Probate Registry to Mrs. Dinah Turner, the deceased's widow, her sureties being Mr. Thos. Whitfield, auctioneer, and Mr. E. Bremner Smith, architect, both of Oswestry. The gross value of deceased's personal estate amounted to 1,393l. 6s. 5d., and the nett value to 676l. 16s. 7d.

The will of Mr. Joab Fawthrop Canby, of Sharples, near Bolton, Lancashire, chemist and druggist, who died on February 8, 1894, has been proved at Manchester District Probate Registry by Mrs. Eleanor Fawthrop Canby, the widow, Mr. Joab Fawthrop Canby, the son, and Miss Eleanor Matilda Canby, the daughter of the said deceased, all of Newholme, Sharples, the executors named therein. The gross value of the personal estate amounted to 2,4291.19s. 3d., and the nett value to 2,0671.19s.11d.

The will of Mr. Philadelphus Jeyes, of Moulton, Northamptonshire, retired chemist and druggist, who died on December 19, 1893, has been proved at the District Probate Registry by Mrs. Ann Maria Jeyes, the widow, and Mr. Charles Pickering, of Pitsford, land agent, the executrix and executor nominated therein. The gross value of the testator's personal estate and effects was originally sworn at 23,935l. 15s. 9d., the will value at 23,456l. 17s. 7d., and was re-sworn in June at 24,103l. 6s. 11d.

The will of Mr. Benjamin Ward, of 30 West Parade, New-castle-upon-Tyne, chemist and druggist, who died on September 13, 1893, has been proved at the District Probate Registry by Mrs. Dorothea Elizabeth Ward, wife of Mr. George Robert Ward, commission agent, of 30 West Parade aforesaid, one of the executors, Mr. Henry Charles Swan, the other executor nominate, having renounced probate. The gross value of the personal estate of the testator amounted to 1,3451. 19s. 6d., and the net value to 5901. 1s.

The will of Mr. John Lee, chemist and druggist, of Sutherland Gardens, W., and formerly of Great Yarmouth, who died aged 74 years on May 25, 1894, has been proved at the Principal Probate Registry by Mr. Harry Lee, of the Indian Civil Service, Lower Bengal, at present residing at Cheltenham, Gloucestershire, son of the deceased, and Mr. John T. Waters, solicitor, of Great Yarmouth, the executors therein named. The gross value of the personal estate was sworn at 7471. 1s., upon which a stamp duty of 181. 15s. is charged.

The will of Mr. George Pattison, of 197 St. John Street Road, Islington, pharmaceutical chemist and manufacturer of the felt lung-protector, who died on June 7, 1894, has been proved by Miss Gertrude Constance Pattison, of 19 Chadwell Street, Clerkenwell, daughter of the deceased, one of the executors therein named, power to prove hereafter being reserved to Messrs. Sidney and Horace Pattison, the deceased's sons and other executors nominate. The gross value of the personal estate was sworn at 1,487*l*. 7s. 5d. and the net value at 368*l*. 8s. 2d.

The will, dated May 5, 1885, of Mr. Richard Loxley Dingley, chemist and druggist. of Evesham, Woroestershire, who died on February 3, 1892, has been proved at the District Probate Registry by Messrs. B. W. Willis, son-in-law, and Thomas Cox, solicitor, both of Evesham, the acting executors, power being reserved to prove hereafter for Mrs. Mary Frances Dingley, the widow and executrix nominate. The gross value of testator's personalty amounted to 1,7291. 14s. 11d., and the net value to 1,3481. 6s. 5d. The testator gives his widow a life interest in the whole of his property real and personal, with remainder on her dcath to his two daughters in equal shares.

The will of Mr. James Hart, pharmaceutical chemist, of 293 Blackburn Road, Bolton, Lancashire, who died on January 15, 1894, has been proved at the District Probate Registry by Miss Mary Catherine Hart, of 293 Blackburn Road, the daughter, and Mr. Frank Hart, of 130 Newport Street, Bolton, pharmaceutical chemist, the son of the deceased, the executors named in the will. The gross value of the personal estate was sworn at 3,364*l*. 6s. 9d. and the net value at 2,640*l*. 2s. 10d.

The will, dated November 19, 1892, of the late Mr. Joseph Weedon, chemist and druggist, of Crawley, near Horsham, Sussex, who died on November 10, 1893, has been proved at the Principal Probate Registry, London, by Mr. John Henry Chatterton, of 61 Mark Lane, London, insurance-broker, the acting executor of the testator, Mr. George Simmins, the other executor nominated, having renounced probate. The gross value of the personal estate of the deceased amounted to 1,2361. 11s. 3d., the net amount (chargeable with probate duty of 361.) being 1,1031. 4s. 1d.

ACCIDENTAL POISONING OF A CHEMIST .- Dr. Moody, borough coroner, held an inquest at Grimsby on Thursday, August 23, touching the death of Walter Clark Freshney, partner with Septimus Freshney, chemist and druggist, Victoria Street, who died on Wednesday afternoon through poisoning. From the evidence it appeared that about nine on Monday morning the deceased arrived at business, and being troubled with flatulence determined to take ether. An errand boy, named Ncale, was making up some scouring-fluid, to which he added about 1 oz of liquid ammonia. Instead of putting the bottle back into its position, he placed it on the counter against a similar bottle, containing water, which deceased had just placed there, with the result that the deceased picked up the bottle which, as he supposed, contained water, and diluted the ether with it, and swallowed about 6 drachms. A quantity of hair-oil was at once administered to the deceased by a friend who happened to be on the premises, and later an assistant named Spencer, who was fetched, administered acetic acid. Death, however, resulted as stated. The Coroner pointed out that the affair was accidental, and suggested that the fact of the boy using ammonia in the scouring-fluid would probably pervade the premises with its odour, and thus prevent the deceased from noticing it in the ether. The jury returned a verdict of death from accidental poisoning by misadventure. Deceased was highly respected in the town.

A CHEMIST CENSURED .- The inquest on Mary Ann Irish, aged 33, the wife of an optical-case maker, residing at Walthamstow, who died on July 23, which was adjourned for further evidence, was resumed on August 22. The husband stated that when his wife was taken ill she admitted that she had taken rue tea and gin and other drugs to bring about a miscarriage. Mr. Wilson, a chemist, called and saw deceased the same day, and came nearly every day afterwards. In reply to questions why he did not send for a medical man, witness said he thought Mr. Wilson was a medical man; doctors sometimes live in chemists' shops. He did not think the deceased was going to die so sudden. Richard Wilson, who had been acting as locum-tenens to Mr. Andrews, chemist, of 94 St. Mary's Road, Walthamstow, said the deceased first called on him about July 10. On one visit she complained of violent sickness, and witness made her up a bottle of medicine. It contained nothing injurious. The deceased told him that she had been taking rue-tea to bring about a miscarriage. Witness said he called on the deceased in a friendly way, and not as a medical man. Dr. Edward Cornish was of opinion that if medical aid had been called in earlier the woman might have recovered, and her life have been saved. William Womack, detective-sergeant, stated that he had been unable to ascertain where the deceased purchased the rue. The jury returned a verdict in accordance with the medical evidence, and thought the husband should be severely censured, and that the chemist was also deserving of censure. The Coroner, in delivering the jury's censure, said the police could make further investigation, and, if anything illegal had taken place, the Treasury could take the matter up.



Notice to Retail Buyers :- It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable even for manufacturing purposes.

It should also be recollected that for many articles the range of quality is

#### 42 CANNON STREET, E.C., August 23

#### The Liverpool Market.

Our Liverpool correspondent, writing on August 21, says that Canary-seed has been in brisk demand during the week, the last sale reported being 1,000 bags Turkish at 55s. to 56s. per quarter, which may be considered value. Castor oil has moved off rather more freely, and now holders of good seconds Calcutta are getting better prices at  $2\frac{1}{8}d$ . to  $2\frac{3}{18}d$ . per lb. First-pressure French and Madras are better, and prices are tending in sellers' favour. Thirty-five bales of *Jaborandi*, inferior quality, offered at auction, but there were no bids. In Balsam eopaiba the market has been cleared of Maranham on private terms. Chilian anise has been selling at 21s. per cwt., though some holders are off the market for more money. In Acacia gums Soudan sorts have moved off rather quietly this week at 42s. to 42s. 6d. per cwt. for fair qualities There has been rather a good inquiry for Brazilian, of which a fair selection is available. More business has been done in Guinea-grains, and now 19s. to 20s. per cwt. is asked by holders.

ACID (CARBOLIC).—The demand is not very brisk, and there is no material alteration in the quotations. Crystals, 39° to 40° C., are quoted at 6d.; 34° to 35° at  $5\frac{1}{4}d$  to  $5\frac{1}{2}d$ . per lb. For *Crude* 60-per-cent acid 1s 7d. per gallon is asked, and for 75 per-cent. 1s.  $10\frac{1}{2}d$ . to 1s. 11d. per gallon. Cresylic, 95-per-cent, 1s. 3d. to 1s. 4d. per gallon.

ACID (CITRIC).—In fair demand. The lowest price at which anything is being offered is 1s.  $2\frac{3}{3}d$ . per lb.

ACID (TARTARIC).—Slow of sale, at  $10\frac{1}{2}d$ . for foreign, and from  $10\frac{3}{4}d$ . to 11d for English (B.P.) quali y.

ALCOHOL.—Mainly owing to the threatened failure of the continental potato-crop the prices of German potato-spirit have advanced rapidly in the course of the last few days, and are now about  $\frac{3}{4}d$ . per lb. higher than at the beginning of the rise; to-day's quotation for good brands being  $7\frac{3}{4}d$ . per lb., c.i.f. terms, naked, for large quantities. If the rise continues, many of the preparations in which alcohol is used are likely to be affected by it.

BALSAM PERU.—A very s'eady market at 7s. 6d per 1b. for wholesale quantities.

CAMPHOR (CRUDE).—China camphor has again advanced. A few days ago 120s., c.i.f. terms, was paid for 100 piculs August September shipment, but at present there are further sellers, but no buyers, at that figure. On the spot 125s. is asked. Japan camphor offers at 125s. c.i.f., for August-September, and at 135s. on the spot.

CAMPHOR (REFINED).—There has been no change in the position since the penny advance on August 8: English bells, flowers, and large tablets remaining at 1s.  $7\frac{1}{2}d$ . per lb. for half ton lots.

CANARY-SEED continues to advance, and a good business has been done here at 54s. 6d. per quarter for Turkish.

Moroccon seed is held for 55s. The new Turkish crop, which is estimated at 60,000 bags, is due about the end of next month.

CHAMOMILES.—Belgian flowers are very slow of sale, and prices generally tending lower. Medium quality, rather brownish, has been sold at 42s. 6d., for fine flowers from 48s. to 50s. per cwt. is quoted.

CHILLIES.—Dearer; for fair to good fair from 34s. to 37s. 6d. per cwt. has been paid on the spot.

CHLORATE OF POTASH.—Rather easier;  $6\frac{1}{8}d$ . per lb, f.o.b. Liverpool, would be accepted, or  $6\frac{1}{4}d$ , in London.

CINCHONA.—Five brokers offered bark for sale at Tuesday's auctions, their catalogues, counted together, representing of:

		Packages	P	acka,	ges	
Ccylon cinchona		423 of	which	359	were	sold
East Indian cinchona		817	12	659	93	
Javan cinchona		83	12	65	22	
West African cinchona	••	291	21	291	"	
		-	_			
		1,614		1,377		

The assortment of bark was of fairly good quality, and competition was well maintained throughout the sale, the result being an advance of about 5 per cent. upon the average unit of the last preceding auctions. The unit for manufacturing barks is now fully  $\frac{15}{16}d$  per lb., or double that of August 1893, but  $\frac{1}{8}d$ . to  $\frac{1}{4}d$ . less than in August 1892. The Mannheim and Brunswick factories again purchased very little, but otherwise the demand was pretty generally distributed. The total quantity of quinine represented by the manufacturing bark sold equals about 65,000 oz. The following are the approximate quantities purchased by the principal buyers:-

		Lbs.
Messrs. Howards & Sons		100,388
Agents for the Frankfort and Stuttgart works	••	54,647
Agents for the Auerbach works		43,763
Agents for the American and Italian works		43,094
Agents for the Brunswick works		18,757
Agents for the Paris works		11,900
Agents for the Maunheim and Amsterdam works		5,089
Druggists and others	• •	10,095
Total quantity of bark sold		287,733
Bought in or withdrawn	••	62,072
Total quantity of bark offered		349,805

It should be remembered that the quantity of bark bought affords no indication of the amount of sulphate of quinine represented by the purchase.

The following prices were paid for sound bark:

CEYLON CINCHONA.—Original—Red varieties: Dull woody to good bright quill,  $1\frac{5}{8}d$ . to  $3\frac{3}{8}d$ .; broken quill,  $1\frac{3}{8}d$ .; good stem shavings,  $1\frac{1}{4}d$ . to  $2\frac{5}{8}d$ .; fair shavings,  $1\frac{1}{8}d$ .; dull and dusty to good bright stem and branch chips, 1d. to  $2\frac{1}{4}d$ .; root,  $1\frac{5}{8}d$ . to  $1\frac{3}{4}d$ . per lb. Grey varieties: Stem chips,  $1\frac{1}{4}d$ . to 2d. per lb. Hybrid chips,  $1\frac{1}{2}d$ . per lb. Reneved—Stem shavings,  $2\frac{1}{2}d$ . to  $3\frac{3}{8}d$ .; quill,  $1\frac{5}{8}d$ . to 2d.; stem chips,  $1\frac{3}{4}d$ . to

Figure 15. Grey stem chips, 2d. to  $3\frac{5}{8}d$ . per lb. Grey stem chips, 2d. to  $3\frac{5}{8}d$ . per lb. EAST INDIAN CINCHONA. — Original — Red varieties: Thirty-six cases Darjeling quill, good stout red, 5d. per lb. (subject to approval); dusty, partly quilly, chips,  $1\frac{1}{4}d$ . to  $1\frac{1}{2}d$  per lb. Grey varieties: Dull and dusty to good bright quilly stem and branch chips,  $2\frac{1}{4}d$ . to  $3\frac{5}{8}d$ .; common poor chips, 1d. to  $1\frac{3}{8}d$ .; medium bright broken quill,  $4\frac{1}{2}d$ .; root,  $2\frac{3}{4}d$ . to  $3\frac{1}{4}d$ . per 1b. Yellow varieties: Ordinary to good bright quilly stem and branch chips,  $1\frac{3}{8}d$ . to  $3\frac{1}{8}d$ .; root, 2d. per lb. Renewed-Grey varieties: Ordinary to good bright quilly stem and branch chips,  $3\frac{3}{4}d$ . to 5d.; yellow chips, 3d. to 4d. per 1b.

JAVAN CINCHONA.—Crushed Ledger bark (original) realised

 $3\frac{3}{8}d$ ., branch  $2\frac{1}{2}d$ ., and root  $3\frac{5}{8}d$ . per 1b. West African Cinchona.—Two consignments imported  $vi\hat{a}$  Lisbon, aggregating 291 packages, sold at  $2\frac{3}{8}d$ . to  $3\frac{1}{4}d$ . for fair to good medium Succirubra quill, partly thin and broken; and at  $1\frac{7}{8}d$ . to 2d. per lb. for dull, thin, and broken mixed quill and chips. Stem chips brought  $2\frac{1}{8}d$ . to  $2\frac{3}{4}d$ . per lb.

The exports of cinchona-bark (in Amsterdam lbs.) from

Java during the last five years (July 1 to June 30) have been:—

_	<b>1893–94</b>	1892-93	1891-92	1890-91	1889-90
Government plan- tations	467,040	645,124	605,792	553,255	541,481
Private planta- tions	6,961,296	7,309,966	7,181,075	6,323,561	4,579,787
Total	7,428,336	7,955,090	7,786,867	6,876,816	5,121,268

The bark auctions to be held in Amsterdam on Thursday next (August 30) will consist of 4,451 bales and 355 cases (total, 429,558 kilos.), containing an average of 4.91 per cent. sulphate of quinine in the manufacturing barks, or a total of 20,265 kilos. sulphate of quinine, of which 19,448 kilos. are found in the manufacturing and 817 kilos.

in the druggists' barks.

The shipments of cinchona-bark from Java during the month of July are reported by cable to have been very heavy, amounting to over 1,000,000 half-kilos. The total shipments from the island for the first eight months of the year are therefore now practically the same as those in the corresponding period of 1893. From Ceylon, probably owing to the improved position of the article, the shipments in July were also very considerable; they amounted to nearly 600,000 lbs., which is more than the exports of the three preceding months together. The stock of bark in London on August 1 consisted of 32,427 bales, composed as follows:—Eastern cinchonas, 14,240 bales; South American cinchonas, flat and quill calisaya, 4,933; crown and grey barks, 252; red barks, 47 bales; South American cuprea, soft Colombian, and Pitayo barks, 12,151 bales.

CIVET.—Ordinary qualities are obtainable at from 12s. to 15s. per oz.; but fine pure civet is exceedingly scarce, and we are told that as much as 32s. per oz. is asked for it.

CLOVES are dearer for Zanzibar, of which 213 bales were partly sold at auction on Tuesday at  $2\frac{1}{3}\frac{1}{3}d$ . to  $2\frac{1}{2}d$ . per lb., for fairly good to good bright. On the spot sales have been made privately at  $2\frac{7}{16}d$ . to  $2\frac{1}{2}d$ ., and for delivery in September-October at  $2\frac{6}{16}d$ . per lb.

Cologynth.—Good Turkish apple is very scarce, and the principal holders have raised their quotation to 1s. 9d. per lb., after selling a 1d. below the price. They expect to be able to enforce a further advance within a few days.

CREAM OF TARTAR.—The position has slightly improved, 58s. 6d. per cwt., f.o.b., being now asked for best white French crystals, while the London price is steady at 62s. 6d. per cwt.; German powder, 64s.

CUBEBS.—The following figures represent the exports of cubebs from Java during the last five seasons (July 1 to June 30) in piculs of  $133\frac{1}{3}$  lbs.:—

 1893-4
 1892-3
 1891-2
 1890-1
 1889-90

 3,946
 3,244
 2,207
 1,378
 1,353

CUMIN-SEED.—The new crop of *Malta* seed is now landing, and is reported to be of fine quality, and to have given a considerable yield; good old Malta seed has been sold at 37s. 6d. per cwt.

ERGOT OF RYE.—There are reports that the new Spanish crop will be only about one-fourth of last year's, but up to the present this news has not received confirmation. Meanwhile the price of ergot keeps very low. For good Spanish 10d. to 11d. per lb. is asked, but sales are said to have been made at 9d. per lb. for fair clean but not very bold.

GALLS (CHINESE) are firm, the spot quotation being now  $42s.\ 6d.$  to 45s. for fair to fine bold.

GALLS (TURKISH).—Some business has recently been done in green Bassorah galls at rather lower rates—viz., 40s. to 43s. per cwt. according to quality. There are further sellers at these quotations. Blue galls are held for 52s. 6d.; white, according to quality, at 35s. to 40s. per cwt. Smyrna galls are in small supply, but without demand: blue, 49s. to 50s.; green, 35s. to 40s.; white, 30s. to 35s. per cwt.

GINGER is firm, at full prices for Janaica root, of which 100 barrels sold at auction, at 57s. to 59s. por cwt. for

common to good common Ratoon, 61s. for small brownish scraped, 64s. to 72s. for low medium to medium washed, and 96s. per cwt. for good bold washed. *Cochin* ginger remains dull of sale, 150 bags at auction realising 37s. 6d. for shrivelled, 38s. 6d. for limed medium and small rough, 42s. 6d. for dull medium washed rough, and 80s. per cwt. for bold A cut.

GUM ACACIA.—There has lately been a good demand for Soudan sorts, and a fair amount of business has been done in this variety at from 40s to 47s. per cwt. for hard brownish to ditto pale, slightly amber, mixed. The available stock of Gehzirah gum was bought up some time ago at 31s. to 32s. 6d. per cwt.; and nothing is now to be had of this variety. Holders of Jeddah Amrad have shown much anxiety to sell; the nominal price is 27s. 6d. to 29s. per cwt. Persian Gulf gum neglected, at from 13s. to 18s. per cwt. for sorts, and 20s. to 22s. per cwt. for selected gum.

GUM ELEMI.—Not much doing; fair clean pale Manila is selling on the spot at 33s. per cwt.

GUM TRAGACANTH.—Very steady, with a small business. Persian firsts 12l. 10s., seconds 10l. 15s. to 11l. 10s., thirds 9l. to 10l.; Smyrna firsts 13l. to 14l., thirds and seconds 9l. to 11l. 5s. per cwt.

INSECT-FLOWERS.—Slow of sale. The quotations from Trieste are 50s. per cwt. f.o.b. for open; 75s. to 80s. for half-closed, and 95s. to 100s. for closed flowers.

JABORANDI-LEAVES.—The only parcel on the market of any importance is one of small unsightly leaves to which we referred some weeks ago; it would seem that the analysis of this parcel has shown it to be much richer than it was believed to be.

JALAP.—There is no alteration in the position of the drug on this market, but reports from the United States speak of a slight improvement.

MENTHOL quiet. On the spot it would probably be possible to buy at 16s. pcr lb.

MERCURIALS.—In consequence of the advance in quick-silver the manufacturers of mercurials have advanced their quotations 1d. per lb. all round, the following being the revised scale of charges for wholesale quantities:—Biehloride, 2s. 4d.; Chloride, 2s. 8d.; Nit. oxide, 2s. 11d.; do. levig., 2s. 11d.; Ox. flav., 2s. 11d.; Præeip. alb., 2s. 11d.; Sulph. alb., 2s. 1d.; Sulph. nigr., 2s. per lb.

Musk is held rather more firmly, although no business of any importance has taken place. Some importers talk of withdrawing their stock from the market for the present.

MUSTARD-SEED.—At auction on Wednesday, 50 bags yellow Californian sold without reserve at 10s. 3d. per cwt.

OIL (COD-LIVER).—Selling in moderate quantities at from  $87s.\ 6d.$  to 100s., according to quality, for last season's oil.

OIL OF ALMONDS has been reduced by 1d. for best swect English drawn, which is now obtainable at 1s. per lb., one of the lowest quotations ever known in this article. English-drawn oil from peach-kernels has been reduced from 8d. to 7d. per lb.

OILS (ESSENTIAL).—Lower prices are being talked of in American Oil of Peppermint. H.G.H. oil is still held for 12s. per lb. in London, but possibly concessions might be made; for Wayne County oil 9s. per lb. net c.i.f. to arrive is asked. Oil of Star Anise is held for 7s. per lb. on the spot, and offers at 5s. 9d. per lb. c.i.f. terms for September shipment. Oil of Cassia on the spot is worth 3s. 3d. to 3s. 4d. per lb., and offers at 2s. 10d. per lb. c.i.f. terms for September shipment. American Spearmint oil, HGH brand, which has not been offered in the market for several years, is now again obtainable at 10s. per lb.

OPIUM.—The London market is in a very unsatisfactory condition. No sales in *Turkish* opium are possible except at lower prices, and step by step the owners are compelled to cut down their quotations. Even at the reduced rates it is exceedingly difficult to place any except soft shipving opium, for which the price cannot now be quoted above 10s. to 11s. per lb. *Manufacturing* and *druggists*' gums are scarcely moveable:—9s. 6d. to 10s. is the nominal quotation for good to fine *Smyrna*, 8s. 6d. to 9s. for druggists' seconds, and from 8s. 6d. to 10s. for fair to fine Constantinople descriptions.

In *Persian* opium alone there is a fair export demand, and from 9s. to 10s. 6d. per lb. can be realised according to quality. The new Turkish opium is arriving; parcels of *Salonica* variety rocently imported show a very good standard of quality. A Smyrna correspondent, in a letter dated August 10, observes:—"No change in the situation this week. Ten cases new opium (inspected) have been sold at the parity of 8s. 7d., 6 tale quale at 8s., 3 ordinary Yerli tale quale at 8s. 3d., and 4 old ordinary tale quale at 8s. 4d. per lb. f.o.b. The market closes rather firm, with further buyers. Arrivals to date 813 cases, against 304 in 1893."

ORRIS-ROOT is still declining in price and offering in considerable quantities, best selected Florentine being held at 65s, good sorts at 60s. per cwt.

OTTO OF ROSE.—The "official" price has not yet been fixed. As a rule the standard quotation is decided upon much earlier in the season, but last year the time of arranging it was deferred until September 4.

PHOSPHORUS.—Up to the present there has been no alteration in the quotations. The new competition by American manufacturers in this market, however, continues, and alterations may take place at any time.

QUICKSILVER.—Owing, it is reported, to the receipt of several important orders from China, the principal importers were able, on Friday last, to raise their quotation by 5s.—viz., from 6l. to 6l. 5s. per bottle. Second-hand holders have raised their prices in sympathy with this move, and are now asking from 6l. 4s. 6l. to 6l. 4s. per bottle.

QUININE.—Early last week the prices of *Howards'* and *Whiffen's* quinine were advanced by 1d. per oz., and within a couple of days three German makers (B. & S., Zimmer-Jobst, and Brunswick) followed suit, Auerbach bringing up the rear shortly afterwards. Up to the present no information has been received, that the prices in the United States have also been altered, but this is expected daily. The other quinine salts have also been advanced in price, salicylate, bromide and muriate to 1s. 2d. per lb., equal to a rise of  $1\frac{1}{2}d$ . per oz. The manufacturers continue to adhere to their policy of discouraging speculation, and refuse to supply upon delivery over an extended period. Several second-hand parcels have changed hands since our last report at improved prices,  $12\frac{1}{4}d$ . per oz. being paid on Monday, while on Wednesday 20,000 Auerbach (a parcel in the hands of a firm in Amsterdam) realised 12d. per oz. for prompt shipment. The following are the revised quotations of the manufacturers:—Howards & Son's, in vials 1s. 4d. to 1s. 5d, in tins 1s. 3d. to 1s. 4d.; Whiffen's, in vials 1s. 4d. in tins 1s. 2d.; Falbrica Lombarda (Milan), in vials 1s. 4d., in tins 1s. 2d.; Zimmer and Jobst, in tins 1s.  $2\frac{1}{2}d$ . per oz. To-day  $12\frac{1}{2}d$ . per oz. is the bottom price in second hand.

RHUBARB.—Considerable activity has lately prevailed in this drug, and a good deal of business is reported in Cantor root, both on the spot (at 1s. 5d. to 1s. 6d. per lb. for fine bold) and for arrival. The first parcel of new-crop Shensi root is now landing. The crop of Canton root, according to the importers, is a small one, and what there is of it is arriving very slowly. Bold round and flat is held for 1s. 5d. to 1s. 6d., medium flat for 1s. 2d., and medium round for 1s. 1d. per lb. The crop of high-dried root is not yet on the market, and higher prices are expected to rule for it. Of Shensi root it is said that scarcely 30 piculs are expected.

SALTPETRE has been advanced to 22s. 6d. per cwt. for English refined in 1-cwt. kegs or 21s. 6d. in  $2\frac{1}{2}$ -cwt. barrels. German refined is quoted at 22s. in kegs and 21s.  $7\frac{1}{2}d$ . in barrels; the cause of the advance lies in the increased demand in consequence of the war in the East. A meeting between the English and German members of the convention which rules the price of the article has been arranged for this week, and it is very likely that it will then be decided to raise the quotations still further.

SCAMMONY-ROOT.—There have been several arrivals lately replenishing our rather low stock of the article. The quotation is from 25s. to 27s. 6d. per cwt.

SHELLAC remains very firm, second *Orange* being several shillings dearer since last week. At auction 130s, was paid

second orange realising from 99s. to 105s. for fair reddish to strong bright curly, and from 91s. to 97s. for interior to dark livery. First quality Button lac realised 117s. per cwt.

SIMAROUBA-BARK, which has for many years been almost unsaleable, has suddenly become scarce, and is held for high prices.

TEA.—After a sharp rise like that of the last few weeks a slight reaction was to be expected. This week commonest Ceylon and Assam show a decline of  $\frac{1}{4}d$ . per lb. Good common Assam Pekoe Souchong at  $5\frac{1}{2}d$ . is wonderful value. Finer Assams are no cheaper, and a choice Darjeeling this week ran up to 3s. 9d. per lb. Good new Pekoes from 9d. to 1s are hadly wanted, but buyers have to be cautious for another month or six weeks. The Ceylon sales for the week have been lighter than for some time. The demand for Monings continues steady, and a fair trade has been done, but Kaisows are dull and poor, and difficult to move. Capers are offered freely, and good liquoring teas from 5d. to 6d. are undoubtedly cheaper.

TURMERIC.—At auction on Tuesday 200 bags Bengal turmeric, small and dull mixed finger, sold cheaply at 9s. 9d. per cwt., and a small lot of wormy Madras bulbs realised 10s. per cwt.

VALERIAN-ROOT.—Supplies of the new crop which is due in the autumn are already being offered at very low prices, 21s. per cwt. being a quotation for Belgian root.

WAX (JAPAN).—Two parcels, each of 100 cases, have recently been sold at 31s. 6d. per cwt. on the spot.

# \* REVIEWS \*

An International System of Electro-Therapeutics. By HORATIO R. BIGELOW, M.D., and Thirty-eight Associate Editors. Philadelphia: The F. A. Davis Company. 34s.

Our introduction to "Electro-Therapeutics" was unfortunate: in a moment of forgetfulness we essayed to carry it home and found our mistake. The weight of the book was surprising, and at every step it became more so, till our one desire was to throw the thing away. Happily a vision of editorial wrath restrained us, and we struggled on, but at last it became more than flesh and blood could bear, and making for the nearest shop we placed "Electro-Therapeutics" on the counter and intimated a desire to have it weighed. How many pounds it was said to be we do not remember. It was a good weight for any ordinary hook, but it confirmed the opinion we have long held that all scales are liars. We left our volume at the shop, the proprietor saying he would keep it till we sent for it, cynically adding that nobody would "be likely to run away with it"—which we believe.

In due time "Electro-Therapeutics" arrived by "express delivery," and our landlady carefully placed it on the strongest table she provides for our use. There it remained for several weeks, and we reviewed it from the outside in the secret hope that the editor had forgotten its existence. Alas! vain hope; one day came the remark, "Surely you have had 'Electro-Therapeutics' a very long time," and perforce we saw the error of our ways and the inside of the book.

"Electro-Therapeutics" is a book of many pages. How many we do not know, as it is numbered by a method that gives no information on the point. This may seem mysterious, but we have no intention of giving the mystery away, and those who desire to solve it must buy the book and look for themselves. Externally the work is by "Bigelow," but that gentleman does not write any of the internal parts. Those are the productions of thirty-eight distinct authors, male and female. These, we have no doubt, are most worthy individuals, but, with a few exceptions, we do not remember to have heard their names before. They seem to he chiefly of the American persuasion, with a few Germans, and they write English after the manner of their kind and spell it in a way quite their own. For instance, we are told that

a muscle to contract." It may; but it is a "tip" that is new to us.

These, however, are only the little vagaries that we have learnt to expect in hooks "made in America," but we have never before seen them mixed with high-flown flights of eloquence such as are here. We give a choice example: "Phænician voyagers who were in the habit, in that dim age, of sailing out of the Straits of Hercules, and, perhaps, of coasting along the desolate shores of Europe until they reached the Baltic, brought back from the savage seas of Prussia a substance greatly prized by the ancients for its fair colour and delicate transparency." This is very refreshing; we specially admire the "savage seas of Prussia," wherever they may he, and we may add that, if we extended the quotation far enough, the reader would find that the "substance" so much admired for its "fair colour" is amber.

From the above it may be judged that "Electro-Therapeutics" is fairly entertaining reading. In regard to its scientific standard, we have come across many statements that are doubtful, and others that are inaccurate. For instance, "Every spark-gap requires a pressure of 9,000 volts to overcome it," which is pure nonsense. Again, "About one-sixth of the current passes through the patient . . . so that from a galvanic current of 200 milliampères the patient receives 40 milliampères." The illustrations are numerous. Most of them represent electro-medical appliances, on which the names of the makers are writ large. Some of the other plates we cannot help thinking we have seen before elsewhere.

Space forhids us going on with this, and as there are two sides to every question, it would ill hecome us (despite the prejudice afore-mentioned), not give the other side of this. "Electro-Therapeutics" is a hook that no one with any interest in the science can afford to do without. In a single volume it gives a wonderfully complete and thoroughly up-to-date account of a subject which so far could be got at only hy wading through a sea of text-hooks and mono-

Some of the papers in the book are excellent. Those hy Dr. Kellogg on "The Electro-Therapeutic Methods of Apistoli," and hy Drs. Grand and Famarque, of Paris, on the treatment of fibroid tumours, are about the best on their respective subjects that we have yet seen. On the other hand, few of the papers reach anything like so high a standard. Dr. Bigelow, in his preface, informs us that "each paper is a classic of itself," but concerning this we have our own opinion; and as we heartly wish "Electro-Therapeutics" well, we trust that the second edition will appear with a number of these "classics" considerably altered.

#### Patents.

#### Citrie Acid.

No. 5,620. March 15, 1893. C. Wehmer, 154 Cellerstrasse,

Hanover, Germany.

Relates to the preparation of artificial citric acid from sugar, starch, glycerol, and analogous substances hy acting upon them in solution with two new species of hyphomycetes, herein called citronycetes. These fungi are obtained hy allowing a sugar solution containing 2 to 5 per cent. of citric acid to stand a few days, then removing the fungi produced, and cultivating them in sterilised sugar solution. The pure culture is introduced into sugar solution containing a small quantity of mineral salts, and the liquid is allowed to stand at the ordinary temperature for 8-14 days. On evaporation the citric acid separates; or it may be obtained as lime salt hy adding lime or carbonate of lime to the solution after or hefore the fermentation.

#### Medicinal Powder.

No. 5,445. March 14, 1893. D. Wilkinson, Chapel Terrace,

Ripley, Derbyshire.

A powder for removing cancers, tumours, abscesses, or fistulas, is composed of sulphate of zinc, corrosive sublimate, and roach alum,

#### LONDON DRUG STATISTICS.

THE following figures refer to the movement of some of the principal kinds of drugs at the public warehouses in the Port of London during the first seven months of 1894 and 1893:—

	Stocks		Impo	rted	Delivered	
Article	1894	1893	1894	1893	1894	1893
Aloescs, &c. "gourds Arrowroot brls "brs & tins Balsamscks, &c. Borax pkgs Calumba bgs. Camphor pkgs. Cardamomscs, &c.	4,815 3,489 13,201 2,289 1,206 376 1,352 4,406 1,245	5,033 655 9,716 1,556 1,700 5 1,327 3,558 657	1,127 694 14,966 3,056 493 376 579 7,669 2,325	1,341 198 13.788 1,878 965 20 1,809 6,607 1,487	2,538 461 9,254 1,690 1,185 5 1,219 8 146 1,559	2,111 344 9,354 755 619 276 982 5,776 1,375
Cinchona bark:— S. American cs	42 19,765 152 14,020 423 — 353 147 1,495 4,571	67 22,291 151 15,589 544 10 212 133 1,834 3,185	4,358 118 13,298 125 20 397 20 2,152 3,413	16 4,913 57 22,280 130 2 308 123 2,486 2,946	10 6,906 70 13,819 260 46 414 152 1,095 1,431	5 5 580 49 22,429 273 3 415 108 1,147 1,998
Ammoniacum pgs	76	97	101	4	118	53
Animi & Copal pkgs Acacia Asafœtida , Beuzoin , Damar , Galbanum , Ganloege , Graineum , Kino , Kowrie tns Mastich pkgs Myrrh , Olibanum , Sandarach , Trugacanth , Ipecacuanha bls&pgs Jalap , Lostor , Castor	9,612 12,222 440 2,665 11 267 131 5 3,025 22 361 6,155 991 3,863 858 260 1,194 106 2,461 615 1,500 8 3,027,728 8 5,095 1,500 8	10,777 13,036 3,017 4,105 10 159 198 7 1,137 25 346 3,876 2,022 779 160 571 55 1,313 843 1,487 9 ———————————————————————————————————	10,963 10,463 781 1,036 3,160 1 318 43 7 2,766 17 496 8,742 782 4,811 848 299 3,131 327 2,669 1,699 2,760 35 419 419 641 648	11,132 13,297 346 2,471 1,3616 1 178 88 9 1,907 2,90 400 5,768 675 4,246 1,222 415 1,259 304 2,008 2,418 39 659 101 812 3,150	11,297 11,966 524 1,821 4,017 5 261 104 6 1,941 17 305 5,271 779 2,782 794 190 2,323 388 1,661 1,786 1,694 1,994 1,900 2,782 71,486 1,694 1,786	10,450 12,431 427 1,551 3,091 22 176 85 4 1,711 278 4,212 278 4,212 4,212 3,022 1,154 311 1,292 384 2,395 1,911 1,447 38 818 818 818 901
Sennabls. & Shellac— Orange cs Garnet , Button ,	18,000 5,078 5,909	42,269 7,208 2,956	19,615 6,750 7,627	19,289 8,748 4,878	2,605 20,965 5,532 5,094	2,272 17,314 5,404 5,348
Totalchts	28,987	32,433	33,992	32,915	31,591	28,066
Sticklac cs. Star Anisc cs Gambier tns Cutch Turmeric, Bengal ,, Madras, &c. ,,	1,110 534 538 2,784 122 390	1,730 · 650 550 2,013 112 336	2,233 7,286 1,967 110 475	4,040 691 5,616 1,590 216 514	1,812 79 7,549 1,547 127 338	2,500 280 5,571 1,670 166 342
Total	512	448	575	730	465	508
Vermilion ohts, &c. Wax (bees') bls&sns , cks & cs ,, (Japau)cs, &c.	18 1,398 507 523	87 460 1,076 1,200	3,083 1,641 484	38 2,348 1,450 1,357	40 2,467 2,200 711	19 2,825 1,932 579

TO PURIFY MILK.—An American doctor recommends that milk before use should be filtered by passing it through absorbent cotton-wool sterilised. This not only removes such impurities as hair, dirt, &c., hut, if the cotton be first moistened, reduces the number of bacteria to about one-eighth of the number originally present.



#### Memoranda for Correspondents.

In letters for publication correspondents are requested to express their views as concisely as possible.

Correspondents should write on one side of the paper only, and devote a separate piece of paper to each subject of inquiry.

The name and address of the writer should accompany all communications with, if desired, a distinctive nom-de-plume.

#### The United States Tariff.

SIR,—Your comments on the new Customs Tariff of the United States, especially the remarks regarding the reduction of the duty on alkali, recall to me some facts which I gathered during a recent visit to the States, and which you may consider interesting enough for a corner in The Chemist AND DRUGGIST. It is well known that the United States is our best customer for alkali, nearly the whole of what is consumed there being of British manufacture, and most of that is made by the Solvay-Mond process. Attempts have been made to manufacture alkali in the States, and, to protect the bantling industry, the duty was placed at 1c. per lb. In spite of this American alkali-works have been a signal failure. Consumers of alkali have made most conscientious endeavours to use the American product, but have had to give it up. The alkali manufacturers also have thrown up the sponge, and, I believe, more works have been closed than at present remain open. Glassmakers particularly have objected to the American alkali, and it is no secret that the high quality of American glass is due to the exclusion of the home-made alkali. Glassmakers have been most urgent in seeking a reduction of the duty on this chemical. One told me that if it were admitted free, one result would be that he could send glass to Great Britain and undersell our manufacturers; at the ½c. per lb. he could compete with them and win on quality if not on price. This is altogether apart from the fact that the home market for inferior glass goods is now supplied largely from the outside (from Germany chiefly), but this will now receive closer attention from American glassmakers. The reduction on the glass tariff is rather a set-off to the alkali reduction, but this is really a concession to the working-class demand for glassware of a cheap description. This demand is enormous, especially for beer, water, butter, preserve, and fruit glasses and dishes. Trade in such goods from Europe may improve under the new tariff, but the freight will still handicap our bottle-makers, and in the finer qualities of glassware the American houses have such a firm hold that the reduced tariff will scarcely affect it. Moreover, the  $\frac{1}{2}$ c. caustic soda means much on the other side. I notice that the duty on silicate of soda is increased by  $\frac{1}{8}$ c. per lb., which is a tribute to the unbounded and excellent supply of white sand in the United States.

Yours truly, A PERIPATETIC PHARMACIST. (113/57.)

## The Irish Pharmaceutical Council and Limited Companies.

SIR,—It is quite refreshing to find that there is even one M.P.S I. who has searchings of heart as to what he correctly calls the illogical position of the Council of the Pharmaceutical Society.

The position of limited companies, as affected by the Pharmacy Act (Ireland) Amendment Act, must sooner or later be defined, and the sooner the question is met fair and square by the Council the better. If report speaks truly, the interests which will be arrayed against it when the fight comes will be much more powerful than they are today.

When the next move is made it is to be hoped that it will not prove such a fiasco as a former one. The Council barked very bravely at a certain limited company; but, when the

other bow-wow showed a pretty sharp set of teeth, the assailant retired to its kennel with its tail tucked in. The late refusal of a certificate is only a surly growl from the recesses of that retreat.

"Willing to wound and yet afraid to strike."

Yours faithfully,
Mcdical Hall, 68 Grafton Street,
Dublin, August 21.

Yours faithfully,
J. E. Brunker.

#### Income-tax Repayments.

SIR,—You printed a letter from the Income-tax Agency a fortnight ago in which occur these words: "It should not be forgotten that it is not yet too late to recover income-tax overpaid in respect of the last three years ending April 5, 1894." I have just been before the Special Commissioners, claiming repayment of overpaid sums for the past three years. They allowed the amount claimed for last year, but stated, as a matter of law, that no previous amounts were recoverable. The assessments were on an average of three years' profit. I furnished statements going back to 1888. I paid each year under protest, and no objection was raised to my figures. I enclose a letter from the agency, which I do not think justifies their previous statements, and I-have made it my business to write this letter, in order to warn my brother chemists not to allow their tax to run on in the expectation of being able to secure a return after three years.

Cardiff, August 20.

ALBERT HAGON.

[The letter from the Income-tax Adjustment Agency to Mr. Hagon (dated August 18, 1894) states that "persons whose incomes are less than 400l. can recover the tax they have overpaid. Where the assessment is on an average of three years' profits the case is different, and without a full knowledge of the circumstances we are not in a position to advise you."]

#### Robbery of Eucalyptus Oil.

SIR,—Seeing a report of the above in an impression of yours of August 18, will you allow me to correct a statement therein? I sold the oil to a firm of wholesale druggists before I bought it of Mr. Straker, who I have known for years, and who gave me his invoice. I did not know either of the prisoners; and I beg you will kindly insert this in justice to me, having been in business in the City for the last thirty-five years, and during which time I have been in the habit of dealing with merchants and brokers.

39 Seething Lane, August 20. I remain, Sir, yours faithfully, H. JEUNE.

#### Solution of Ethyl Nitrite.

In the formula for the above, given by Mr. J. Spilsbury in our issue of August 11, page 271, appears, "Rectified spirit (56 per cent.), 3 gallons." This should have been printed "56 over proof."

#### Hampshire Sets a Good Example.

SIR,—I have often got valuable hints from the  $\mathcal{C}$ . &  $\mathcal{D}$ ., and should like to reciprocate. The enclosed formulæ are well-tried and reliable, and you may be perhaps inclined to publish them some time or other for the general benefit.

Faithfully yours,

HAMPSHIRE. (109/67.)

#### Flatulent Dyspepsia:-

 Magnes, sulph...
 3ij.

 Potass, bicarb...
 3iss.

 Spt. chlorof...
 5j.

 Tinct, nucis vom...
 3j.

 ,, capsici...
 nµxiv.

 Inf. gent, co, ad
 3vj.

Capt. sext. part ter die ante cibos.

#### Ringworm Application :-

Creasoti	 	 	mxxxjif
Glycerini	 	 	3ij.
Aeld. acetic. glaci		 	5iiss.
Ol. amygdal. ess.	 	 	mx.
Tr. la vand. co	 	 	i j.

Dissolve creasote and ol. amygdal. in S.V.R. 5ij.; add other ingredients, making up to 3j. with S.V.R.

#### Winter Fluid, for roughness of skin :-

Glycerini					5ij.
Liq. potassæ					mx.
Ess. Jockey Club		• •	• •	••	Mx3
Aqua ad	• •	• •	••	• •	žiss.

Cough-drops for Children, excellent for prescribing, but not for a stock preparation, as it does not keep long:—

Vin. ipecae.						3iss.
Tinct. scillæ	••	• •		• •		5j.
" aurant.	••					5ss.
Syr. simpl. ad	• •		• •	• •	• •	Iiss.
	1 41.		7			

#### Half to a small teaspoonful three times a day.

#### Pomade for Scurf :-

Ung. hydrarg	g. nitra	tis	 		Ziij.
Cera alb			 		3ss.
Vaselin	••	• •	 • •	• •	3j. 3j.

#### Pig-powders:-

Flowers of snlphnr		 	 20 lbs.
Red ochre		 	 11,,
Tartarated antimon	V	 	 12 oz.

Mix. Weigh into powders containing  $\frac{1}{2}$  oz. each. One powder to be given every few weeks.

These are most useful, and command ready sale.

#### Digestive Pills :--

Pulv. ext. cold	20.00					51.
Furv. ext. boil	oc. co.	• •	• •	• •	• •	21.
Bismuth, tris	nit.					5j.
Ext. hyoscyan	n			••		Ess.
Cayenne				••		Ðj.
Sp. vin. ten.						q.s. nt ft. mass.
grain pills.						

## One an hour before dinner. For Lumbago :---

Liquor potassas			• •		ãј.
Syr. papav. alb.	••	• •	• •	••	3j

Capt. coch. min. j. semel vel bis die ex aquâ.

#### DISPENSING NOTES.

Correspondents should consult "The Art of Dispensing" in regard to dispensing difficulties. Difficulties not explained therein may be sent to the Editor, who invites a general expression of opinion upon the undermentioned topics.

#### A Quinine and Salicylate Mixture.

108/48. Pestle asks the best method of dispensing the following prescription:—

Quin. sulph			 	 grs. 144
Acid. mur.	dil.		 	 grs. 144
Sodre salicy	l.	• •	 	 grs. 144
Glycerini			 	 Jiss.
Aquem ad	• •		 	 ξvj.
Ft. mist.				

This is a prescription which crops up periodically. It is a thoroughly bad mixture. The salicylate and quinine react, and the acid precipitates salicylic acid. The only way to obtain a decent mixture is to omit the hydrochloric acid and rub down the quinine with the water.

#### KBr.

Mr. Walter Asten, Birmingham, says:—"The following is a copy of a prescription which has been dispensed in my establishment repeatedly, and which, as you will observe, is perfectly straightforward:—

Liq. ammon. a	eet	• •		• •	• •	ξj.
Ext. ergotæ lie	ą			• •	• •	31j.
KBr		• •	• •	• •		5i•
Aq. ad		• •		• •	• •	Zviij.
Capt. 3j. om.	tis hor	is."				

Mr. Asten says his customer recently spent her holidays in Cornwall, and took this same prescription to a smart and high-class looking place in the town where she was staying to have it dispensed. A thick creamy-looking mixture was supplied, smelling strongly of tinct benzoini co. The proprietor of the pharmacy, on being interviewed about the medicine, said he did not know what KBr meant, nor was there an article known under that name to any other chemist.

#### An Illegible Prescription.

We bave received two more readings of the prescription published in our issue of August 11. It will be noticed that the first differs widely from the replies published last week.

R.	Migrainine (or l	Vitro	o-gly <b>c</b> er	ine		
					centigrami	nes sex
	Macis pulv. Natrii blearb.	••		••	11	80
	Sacch, alb.	• •	• •	• •	āā gra	m. tria.
In	pulv. xij.					
Direction	is in Geriuan.					
R	Pulvis althææ Carb, magnosiæ	••	 T.	 J.	centigran "REILLY,	nmes 40 viginti Aix-les Bains.

	R.	-	
	Morphin. mur.	 	 centig, sex
	Chinin. sulfat.	 	 centig. 80
	Natri bicarbon.		
	Saech, albi	 	 āā gram. trla.
	M. in pulv. divid. xij.		
D.S.	Tägheli ij. P. zu nehmen.		

	R.	Hostics		••		q.s.
	Ŗ	Ungt. althææ				gram. 40
٤.	Ft.	Mur. morphin. ungt.	• ••	••	••	ceutigr, viginti

E. JOUANNIS, Cannes.

M. Jules de Muzsa takes exception to our confirmation of M. Hebbeler's reading of this prescription, which we printed last week. He makes the following remarks in confirmation of his own reading of "mur. morph." in place of "extr. mezerei." (1) In the first formula the word "morphia" is exactly the same, except that the doctor writes "morphi mur." in place of "mur. morph." (2) The word cannot, he says, be "mezerei" because there are two "e's" (really a bad "o") before the supposed "z," and no "e" follows it; the supposed "r" is really an "h," similar to that in the top word. (3) Ext. mezerei would be incrt in such small amounts, and would alter the colour of the ointment, which had previously been dispensed nearly white. (4) The small sign over the first word "mur.," pulled over to the second word, occurs twice in the prescription—once in the first line, and again in the third, in "chinin. mur." M. Muzsa says that, though M. Hebbeler found it very "legible," he considers that he (M. Hebbeler) was more puzzled than himself.

#### Reactions in Dispensing.

111/16. Tyke.—The decomposition is due to interaction between the bismuth. subnit. and potass. bicarb. You will find full information on the subject in the "Art of Dispensing."

110/56. Zinci Chlor.—The precipitation occurring when zinci chlor, is dissolved in water is due to formation of an oxychloride. Suggestions are given as to best method of dispensing in The Chemist and Druggist, September 10 and 17, 1892, page 413 and 499.

110/16. Quæstor. — The reaction between borax and ammonium salts is well known, and depends, of course, on the alkaline reaction of the borax. Ammonia is liberated, boric acid set free, and the borax reduced to metaborate of soda in accordance with the equation—

 $NH_4Cl + Na_2B_4O_7 + 4H_2O = NH_3 + NaBO_2 + 3H_3BO_3 + NaCl.$ 

#### LEGAL QUERIES.

Immediate information on pharmaco-legal matters is available in "Pharmacy and Poison Laws of the United Kingdom," Alpe's "Handy-book of Medicine-stamp Duty," and THE CHEMISTS' AND DRUGGISTS' DIARY.

105/23. Borax.—You will find full particulars of the procedure to obtain an off-wine licence in the C. & D. DIARY, 1894, page 197.

106/60. Kipper.—The proposal to make associates of the Pharmaceutical Society into members has not yet been submitted to Parliament. We cannot guess when it may be expected to come into operation.

107/27. Molecule asks if a mixture of tinct. zingib. fort., sp. ammon. arom., and sp. chloroform. employed as a substitute for brandy "comes witbin the control of the Excise authorities." If a chemist were to deliberately sell such a mixture as a beverage, he would probably get fined; but if he mix it in good faith as a medicine, he would not be liable, even though somebody should take it as a substitute for brandy.

107/21. Dens.—If your unqualified assistant sells a scheduled poison he is liable to a penalty, unless he conducts the sale under the supervision of a qualified person. Mr. Justice Hawkins expressly declined to define "supervision," and neither can we. Each case would have to be judged on its merits. But certainly if you were standing by, and saw all the assistant was doing, that would be sufficient supervision.

98/8. Spes.—You may not sell spirit of wine without a spirit-licence; a wine-licence does not authorise its sale. The Board of Inland Revenue will not, however, interfere with the sale by chemists of small quantities of S.V.R. for bonû-fide medical or scientific purposes. You may make soap, compound campbor, aconite, and belladonna liniments with methylated spirit without special authorisation; but you can only obtain the old kind of methylated spirit for making them with by direct permission of the Board.

104/62. H.—If you distinctly order six articles and the wholesale house sends you six dozen, they cannot compel you to pay the carriage of the quantity sent in excess either way.

108/56. Claviceps—The Irisb pharmaceutical qualification is not recognised in Great Britain, nor is the British in Ireland. The Irisb preliminary certificate is not accepted as equivalent to the similar examination in Great Britain.

109/14. Index.—You cannot safely use in any way the syphons you hold with another maker's name stamped upon them. Communicate with the maker, and ask him to give you some plain ones for them; but if be claims them without any consideration you must give them up.

98/3. Temple.—We do not see how, in view of the decisions under the British Pharmacy Act, it could be held that an incorporated company could not keep shop for selling poisons and compounding medicines under the Irish Pharmacy Acts. But the person actually selling the poisons or compounding the medicines must be personally duly qualified therefor. And (under section 17 of the Act of 1890) the company would, we think, be liable to a penalty if it did not employ a duly qualified man to manage the business.

103/52. Justice. — Under the Coroners Act the fees payable to witnesses at coroners' inquests are fixed by the County Council in counties, and by the Corporation in boroughs. The fee fixed by the London County Council does not exceed 1s. per hour, and not more than 3s. 6d. per day for other than medical witnesses, with travelling expenses at 2d. per mile each way, where the distance exceeds two miles. The other county councils allow about 3s. per day and travelling expenses. If, therefore, our correspondent inquires of the clerk of the County Council, or other proper official in his neighbourhood, he will be able to ascertain what is the rate of fees fixed. All witnesses are treated alike, with the exception of medical witnesses, whose fees are fixed by the Act.

107/59. R. A. M.—A creditor is not bound to accept a dividend under a deed of arrangement, and be is not in any way bound thereby unless he executes same. The only difficulty is that it generally passes all the assets and there is nothing for the creditor to get. The proper remedy is to apply to make the debtor bankrupt, as the execution of a deed of that character is an act of bankruptcy which entitles any creditor, or any number of creditors, whose debt or debts amount to 501., to have a receiving-order made against the debtor. If the creditor does not execute the deed, there is nothing to prevent his suing the debtor at any time within the six years allowed by the Statutes of Limitations. A receiving-order, of course, upsets the deed.

98/59. Menthol.—There is no fixed rule as to payment for the apprenticeship deed, but the general practice is, where a premium is paid, for the parents or guardian of the apprentice to pay both for the deed and stamp—in fact, that is the general custom amongst chemists whether a premium is paid or not.

111/50. G. W. J.—It is of no use to ask chemists what success they have met with on applying for wine-licenees. The law is definite enough, and is not affected by the circumstance that some magistrates are not acquainted with it. They cannot legally refuse a wine-retailer's licence, except on the ground that the applicant's character or his house is not suitable. The statute providing this is 32 & 33 Vict., c. 27, sect. 8.

111/48. Lavender.—A yearly tenant must give six months' notice expiring at the period of the year from which his tenancy begins. We cannot supply a formula for the proprietary article you name. See notice at head of miscellaneous queries.

111/38. Hopeful.—It is the unqualified men individually whom the Pharmaceutical Society are prosecuting, not the Stores as stores. Your letter shows that you have not exactly acquainted yourself with these prosecutions. If you know of a case where an unqualified person is selling poisons, give information to the secretary of the Pharmaceutical Society, and we have no doubt it will have due attention.

178/31. Gentian.—We do not consider that poppyheads, precipitate ointment, or spirit of chloroform come within the definition of "poisons" in the Pharmacy Act; but there is a doubt in regard to the last two. We do not know what Steiner's vermin-killer is composed of, therefore we cannot answer concerning that.

#### MISCELLANEOUS INQUIRIES.

Back numbers containing formulæ, educational or other specific information can be obtained from the Publisher.

N.B.—We destroy anonymous letters. We do not answer queries of the kind here dealt with by post. We ask that separate queries shall be written on separate sheets of paper.

.106/17. W. W. (India).—We have published numerous formulæ for the preparations you mention during the past year and also in DIARY, 1894, but as you are so far away we give a new set instead of referring to back numbers. Soluble Essence of Lemon.—Make a 1-to-4 mixture with rectified spirit from the yellow portion of the rind of the fresh lemon; add from 2 to 4 drs. of oil of lemon; dissolve 4 drs. phosphate of soda and 3 drs. fused calcium chloride each in 5 oz. of water, and add separately to the tincture; stand twenty-four hours and filter. Soluble Essence of Ginger.—To each pint of stronger tincture of ginger (B.P.), prepared from best Jamaica ginger, add solution of ½ oz. of chloride of calcium dissolved in a mixture of 10 oz water and 5 oz. spirit; then add solution of 1 oz. phosphate of soda dissolved in 5 oz. water; stand twenty-four hours and filter. Children's Cooling and Teething Powders.—Calomel or hydrarg. c. creta, 1 gr. for first year of age, ½ gr. for each year afterwards up to 3 gr., either alone or with the addition of an equal quantity of bicarbonate of soda; or ½ gr. of pulv. antimonialis mixed with 1 gr. pulv. pot. nit. and 1 gr. pulv. sacch. alb. Cloudy Ammonia for the Bath.—See DIARY, 1894, page 360. For General Cleaning Purposes:—

Soft soap				 	8 oz.	
Washing-so	oda			 	4 ,,	
Borax				 	1 ,,	
Strong solu	tion of a	mmoni	ia	 	10 ,,	
Methylated	spirit			 	2 ,,	
Water to .				 	1 ga	1

Add any cheap essential oil to the spirit before mixing with the ammonia and solution of soap, &c., in the water. To Perfume Carbolie Tooth-powder (1 per cent.) use equal parts of oil of rose geranium, oil of wintergreen, and oil of cloves.

107/13. Curiosity.—Corn-paint.—This appears to be simply linimentum terebinthinæ made unusually thin.

108/7. Agricola.—Weed-killer.—See C.  $\mathcal{S}$  D., March 10, 1894, page 369.

107/66. *Ignoramus*.—The syrup in your prescription is syrup. rubi idæi (syrup of raspberry).

164/24. Austria.—Compressed Tablets containing borax, thymol, and menthol would form an excellent mouth-wash or antiseptic gargle when dissolved in water.

105/73. J. B.—Sal Hartini.—This is intended to mean Hartin's crimson salt, otherwise known as potassium permanganate. (2) The device on the front of the C. & D.—a phænix with key—signifies immortality and the unlocking of the gates of knowledge. The phænix represents a bird fabled to exist single, to be consumed by fire by its own act, and to rise again from its ashes; hence is used as an emblem of immortality.

103/24. Remo.—The two samples of Baking-powder are much alike, both apparently containing tartaric acid (or cream of tartar) and bicarbonate of soda. Your own is rather less soluble than the other, but seems equally good, carbon-dioxide gas being freely given off by both.

113/56. S. W.—We are not disposed to work out your problems.

105/60. Robin Hood asks our opinion on the two formulæ appended for a General Pill:—

			(N	o. 1.)		
Puly.	rhei					 3j.
,,,	aloes	Socotr		••	••	 žj.
	myrrl		• •	• •	• •	 388
22	sup. D	lispan.	• •	••	• •	 388
Theri	aci	• •	• •			 q.s
It fiat ma	iss. I	Div. in	pil. g	r. iij.		

To this the addition of a little gingerine or ol. fceniculi would be an improvement.

		(	No. 2)	)			
Pulv.	aloes Soe.						ãј.
"	gambog.			••			ãj.
"	sennie	• •		• •		• • •	Iss.
23	guaiaei	••	••	••	• •	• •	388.
23	eoloeyntlı.	••	••	• •	• •		388.
Whea	t flour	••	••	• •	• •	• •	īss.
Syr.		••	••	••	••	• •	q.s.
fiat ma	iss. Div. ir	n nil.	or, iii.				

Two pills for a dose.

The only improvement we can suggest upon these would be the substitution of pulv. rad. podophyll. for pulv. sennæ, and pulv. saponis in place of wheaten flour. Mass with equal parts of syrup and tincture of capsicum.

106/22. Scalp.—Shampoo-powder, to sell in 3d. and 6d. packets.—See formula in DIARY, 1894. The formula there given might be improved by substituting borax for part of the carbonate of soda, and saffron might be used for colouring, a distinctive perfume being used for each priced packet.

107/33. Govan.—Aromatic Bitters.—The following formula makes a good preparation:—

Orange-peel		 	Зj.
Citron-peel (eandled)	• •	 	3ss.
Gentian-root	••	 	3ss.
Casearilla		 	355.
Rectified spirit		 ٠	3 v.
Water		 	3xv

Macerate seven days, filter, and make up to 1 pint.

107/15. Student.—Minor Examination.—Full information as to methods of study for this examination can be obtained from our Educational Number, September 16, 1893. It is not necessary to learn any portion of the B.P. "by heart." A general knowledge of the various processes is all that is required of candidates.

104/26. Scdox—(1) Liquid Hiera Piera is tinctura aloes c. canella. (2) The Pharmacopæia of the Brompton Consumption Hospital is for sale by Messrs. Kimpton, High Holborn, W.C., price 2s. 6d., from which you can obtain the necessary information.

E. B. M.—Petroleum may be bleached either by filtering through a bed of animal charcoal, or by the use of concentrated sulphuric acid, which chars the colouring-matters while not affecting the petroleum.

106/69. Ruby.—Scarlet Ink.—See C. & D., March 24, 1894, page 436.

#### INFORMATION WANTED.

The Editor invites, on behalf of inquiring subscribers, postcard replies to the following:—

111/51. Maker of "Dogs' life-preservers" or "life-preserving pills for dogs."

111/61. Publisher of "Polishers' Annual."

# A SOAP CRUSADE!

# AN APPEAL FOR LEGISLATION.

Soapmakers who deal only in pure, high-class soaps, and obtain popularity for an article of unimpeachable quality, such as

# Vinolia Soap

naturally excite the jealousy of makers and purveyors of inferior soaps, who attempt to push their way into the market by worthless imitations, in which some of the external features of the imitated article are reproduced. In this way the public are apt to be deceived, unscrupulous traders often palming off third class soaps as superior soaps, leaving the proprietors of really genuine soaps to their own remedy, or want of remedy. To guard against this state of things,

# AN ACT OF PARLIAMENT

#### SHOULD BE AGITATED FOR

that would put all soaps unmistakably on their merits, requiring each to be classified according to its true qualities—as, say, first, second, or third class. Then these inferior imitations would find their proper level.

# Vinolia Soap

is probably the purest, safest, and best soap now before the public, containing no free alkali or saccharine matter, but, on the contrary, neutralising demulcent matter, and being exquisitely creamy and fragrant.

PREMIER, 4d.; FLORAL, 6d.; BALSAMIC 8d.; TOILET (Otto), 10d.; and VESTAL, 2s. 6d.

BLONDEAU ET CIE., RYLAND ROAD, LONDON, N.W.

45

# IT PAYS US TO LOSE MONEY.

HOW WE DO IT.

If a Chemist orders a single box of Capsules from us he gets them at the usual price, and we will print his own Name and Address for him without charge, and stock his Labels. Do we lose on the first order l Of course we do. But we gain and keep a customer, because he can find no fault with our Capsules, and knows we stock his Labels.

#### SPECIALITIES:

CAPSULES, SUPPOSITORIES, CACHOUS, PASTILLES, COMPRESSED PELLETS, CHEST PROTECTORS.

SANTAL OIL CAPSULES (24 in Box), with own Address, 15/- per doz.

(Finest English Oil only used.)

COPAIBA CAPSULES (36 in Box), with own Address, 6/- per doz.

And all others at equally reasonable prices.

# BARTLETT HOOPER & CO.

WHOLESALE (ONLY) MANUFACTURING CHEMISTS,

134 UPPER THAMES STREET, LONDON, E.C.

# RAIMES' Premier" Ext. Malt.

SIZES & SHAPES SAMPLES AND QUOTATIONS ON APPLICATION.

# CACHOUS.

For exquisite fragrance the following are unequalled:-

FRACRANT BOUQUET.
HELIOTROPE. PRIMROSES.

OPOPONAX.

RED AND WHITE ROSES. VIOLET. ORANGE-BLOSSOMS.

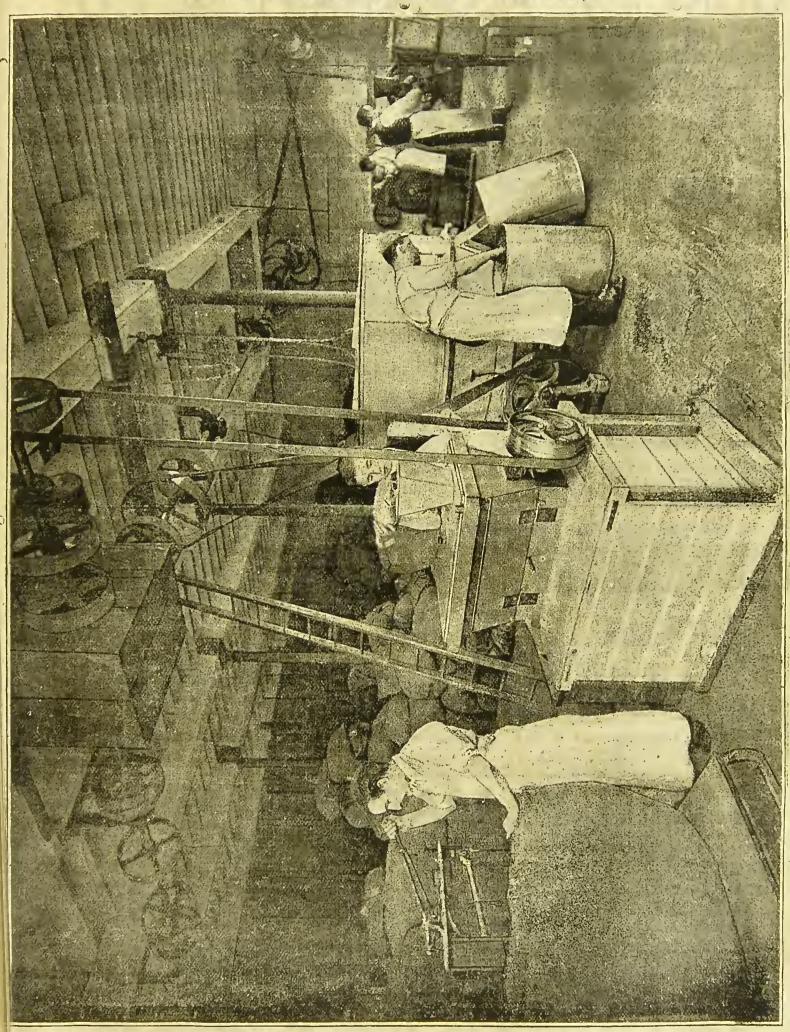
2s. 6d. per lb. Carriage Paid on 14 lbs.

RAIMES & CO., YORK. RAIMES, CLARK & CO., EDINBURGH.

Agents—TIDMAN & SON, 21 Wilson Street, Finsbury, LONDON.

40

### CRUSHING AND GRINDING.



JOHN RICHARDSON & CO.,
ESTABD. 1793: INCORFD. 1891

LEICESTER, LIMITED.

# DUNCAN,

WHOLESALE AND EXPORT DRUGGISTS, EDINBURGH.

# 30) 33

Prepared from Pure and Methylated Spirit, also Chloroform (blue label).

Put up in all sizes of bottles. A strap with Name and Trade Mark of the Firm is placed over the stopper of each bottle. For Export, in bottles corked and luted (stoppers attached), and in hermetically scaled flasks when required.

N.B.—We guarantee all our Chloroforms to be PURE CHLOROFORM. answering all the tests of the British Pharmacopeia.

(DUNCAN'S).
This is a special preparation, quite different from Spir. Chioroformi P.B., perfectly misoible with water, and always of the same strength.

MANUFACTURING PHARMACEUTICAL CHEMISTS, EXPORT DRUG MERCHANTS,

JIMPORTERS OF BRAZILIAN DRUGS, AMERICAN AND CONTINENTAL SPECIALITIES.

ORIGINATORS AND

Largely replacing the Mitcham Oil, 21/lb. Hydrobromic Syrap of Hypophosphites.



MANUFACTURERS OF

Fine quality, keeps well. 6/6 lb. LAC BISMUTHI.

Lac Bismuthi et Cerii, &c

-Address for Telegrams, "BOLLAND LONDON."

# HUDGKINSONS, TREACHER & CLARKE,

WHOLESALE AND EXPORT DRUGGISTS WHITECROSS STREET LONDON

PEARL COATED PILLS. CHEMICALS. TINCTURES IN BOND ESSENTIAL OILS. Manufacturers of Pharmaceutical Preparations

PRICE CURRENT AND ON APPLICATION TERMS

WHOLESALE DRUGGISTS, MANUFACTURING

77; Brighton, 1881; Cork, 1883; Dublin, 1884; International Inventions Exhibition, 1885. GOLD MEDAL—International Health Exhibition, 1884. MEDALS-Cape Town, 1877;

Makers of SOLUBLE GELATINE-, PEARL-, and SUGAR-COATED PILLS, TABELLE, HYPODERMIC INJECTIONS, PESSARIES, SUPPOSITORIES, BOUGIES, PASTILS, FLUID EXTRACTS, OLEATES OF THE METALS.

SPECIALTIES—Mistura Bismuthi Co. (Tonic Digestive); Mistura Cerii Co. (and all Preparations of Cerium); Giycerol Fepsine et Euonymin (Digestive Cholagogue); Giycerol Podophylli (Cathartic); Mistura Cascaræ Sagradæ Co. (Tonic Laxative); OL. EUCALYPTI, P.B.

DRUGS AND CHEMICALS OF BEST QUALITY.

NEW REMEDIES & SPECIAL PHARMACEUTICALIPREPARATIONS, VETERINARY DRUCS & CHEMICALS.

Price Lists and Samples on Application. ST., FLEET ST., LONDON, E.C. 1 and 2 BOUVERIE

48

# FLUID CASCARA AROMATIC.

FLUID CASCARA AROMATIC is introduced to meet a demand for a more palatable preparation than either Fluid Extract Cascara Sagrada, or Fluid Extract Cascara Sagrada (Tasteless), and one which at the same time, may be exhibited in smaller doses than the Cordial.

Care should be taken, when the Fluid Cascara Aromatic, P., D. & Co., is desired, to so specify, otherwise some other product may be supplied.

5/8 PER 16 FL. OZ., LIST.

# GLYCERIN SUPPOSITORIES

(APERIENT SUPPOSITORIES).

The activity of the Glycerin Suppository depends upon The Purity of the Glycerin, and especially its Freedom from Water. We offer you Suppositories that in form and size are adapted to either sex, of any age, and are in every way unobjectionable. Each Suppository contains 95 per cent. of Pure Anhydrous Glycerin. The form—that of a double cone—is the one experience has shown to be most desirable and effective. The size has been selected, also, not alone with especial reference to ease of employment, but also to convenience of division when desired to use for infants or children. Each Suppository may be cut into two equal parts, or even still further divided at the option of prescriber or patient.

NEAT. CLEANLY. CONVENIENT.

PROMPT IN ACTION. DEVOID OF DANGER.

An eligible method of relieving constipation without disturbing the stomach.

Many so-called Glycerin Suppositories contain too small a percentage of glycerin to be efficient. We guarantee the quality of those we manufacture.

PACKAGES.—Our Glycerin Suppositories are put up in tightly-corked bottles of one dozen Suppositories, also in tightly-corked bottles of one-half dozen Suppositories.

CAUTION.—Care must be taken to keep the bottle tightly corked and in a dry place, remembering the great affinity of glycerin for the moisture of the atmosphere. When proper precautions are observed, the Suppositories will keep indefinitely.

LIST PRICES-

In BOTTLES of 1 DOZEN EACH, per doz. Bottles, 5/3; In BOTTLES of 1 DOZEN EACH, per doz. Bottles, 8/-

PARKE, DAVIS & CO., 21 NORTH AUDLEY ST., GROSVENOR SQ., LONDON, W.

# FOREIGN SPECIALITIES & MEDICINES. REVISED PRICE LIST.

# ROBERTS & CO.

FOREIGN AND ENGLISH CHEMISTS,

WHOLESALE, IMPORT, AND EXPORT AGENTS FOR

# FOREIGN MEDICINES AND PATENTS, 76 NEW BOND STREET, LONDON.

Messrs. Roberts & Co. beg to inform the Trade that they are Agents for all the principal French and Foreign Specialities and Medicines, a large supply of which they have always on hand, and can supply on very favourable terms. They are in daily communication with their Paris House, and can offer exceptional facilities for procuring New Medicines, &c., &c., with very little delay. The following is a list of a few that they name au hazard, and that have a large sale:—

Retail Per doz.	. Retail Per doz.	Retail Per doz	z. Retaii Per doz.
	3 4/6 Capsules Matico		
2/9 Ditto ditto21/	4/6 , Mathey Caylus35/	9/ Laville's Gout Tinoture81/	7/ " Elixir Ferrug65/
2/9Anbergier's Syrup27/	4/6Chassaing's Wine39/	9/ ,, Pills78/	2/9 ,, Syrup Ferrug24/6 4/Racahout des Arabes31/
1/9 , Paté	2/9 ,, Plus24/	1/11 Papier Fayard 6/9	4/ Racahout des Arabes31/
6/6Bay Rum57/	4,6Clin's Dragées Bromide Cam.45/	2/3 Ditto	4/6 Reynal's Bougies38/
3/6 Ditto31/	5/ Eau de Botot (Genuine)40/	2/3. Papier Fruneau14/6	2/9Ricord's Injection24/
2/Belloc's Charcoal15/	3/ Ditto24/ .	4/ Ditto24/6	4/6 , Capsnles36/
1/9 " Lozenges	2/ Espic's Cigarettes13/6	1/9 Pâté d'Aubergier15/	9/ ", Syrup 90/; 4/6, 42/
4/8Blancard's Pills32/	4/6. Elixir de Coca (Mariani) 48/	1/9 , de Berthé15/6	1/6. Star Paper11/
2/6 Ditto18/	2/9. Flon's Syrup23/	2/9 , de Coca Mariani25/	11/9. Valiet's Pills14.6
4/6Bron's Injection27/	Gayetty's Paper	1/9 ,, de Georgé14/6	2/9 Ditto23/
4/6Bugeand's Wine	2/3 Granules Arsen. Acid13/6	$1/1\frac{1}{2}$ , Ditto 9/	4/6 Veloutine (Whte, Pnk, Olm.)28/
5/6Bully's Vinegar30/	2/9 Iron14/5	1/6 de Nafé	3/6 Ditto ditto 22/
2/ Ditto14/6	3 2/9 Soda15/4	1/9 Regnauld14/6	2/9Vichot's Trochisques22/
4/6 Cande's (Last Antephiliq.)36/	2/9Grimauit's Syrup Lime24/	7/ Pierlot's Valerian60/	4/6Vin Mariani36/
4/6. Capsules Bromide Camph45/			

SOLE EUROPEAN AGENTS FOR BATTLE & CO.'S BROMIDIA AND IODIA, AND BLOUNT'S OIL OF TAR AND TEREMORRHU.

MM. Roberts & Cie. ont Thonneur d'informer MM. les Pharmaciens Spécialistes de France et de l'Etranger qu'ils se mettent à leur disposition pour des dépôts qu'ils voudraient établir à Londres. On peut avoir tous renseignements en s'adressant à leur maison de Londres ou à Paris.

Agents for MARIANI'S PREPARATIONS OF COCA and LE GRAND'S ORIZA PERFUMERY.

\*Established\* House in Paris: ROBERTS & CO., Rue de la Paix 5. [1823.]

49

# St. Mary-at-Hill,

SPECIALITIES-

In Powder, Pills, Tablets, Lozenges, and Liquors.

(Dr. Finkler & Co).

(Dr. Bengué's Patent).

In Glass Bulbs with Patent Spray & Stopper.

In Nickel-plated

The New Anasthetics for PAINLESS DENTAL & MINOR SURGICAL OPERATIONS.

(Brigonnet)

(Knoll & Co.)

(Knoll & Co.)

Samples, Prices, Pamphlets, Analytical and Medical Reports, &c., sent Post Free by

KÜHN. ST. MARY - AT - HILL. LONDON. 36

& CALLARD, MORRI

PONTAMMAN CHEMICAL WORKS,

AMMANFORD, R.S.O., CARMARTHENSHIRE,

ACETIC ACID, P.B., ACETIC ACID FORT., SP. GR. 1-040 ACETATE OF SODA, COPPERAS,

PURE WOOD NAPHTHA, SULPHURIC ACID & CHARCOAL

Telegraphic Address: "CALLARD, AMMANFORD." Prices and Samples on application.

Established A.D. 1840.

OFTHOUSE

MANUFACTURING CHEMISTS, WHOLESALE & EXPORT DRUG MERCHANTS, HULL,

Manufacturers of Granular Effervescent Preparations. We shall be glad to give specially favourable quotations, and to send samples of our superior Nos. 1, 2, and 3 qualities of CITRATE OF MAGNESIA.

Importers of Cod-liver, Castor, and Olive Oils; Extra Super Essence of Lemon and Bergamot, Otto de Rose, and all



Essential Oils; Valentia Saffron; Vanillas; Fruit Essences; Carmine, Aniline Dyes; Bees' Wax, &c., &c.

MANUFACTURERS of Very Superior Flexible Gelatine Capsules of Balsam Copaiba, Cascara Sagrada, Castor Oil, Cod-liver Oil, Santal Oil, and Blaud's Pill Capsules, equal to 1, 2, and 3 pills. Samples and Lowest Quotations per 1,000, or in Boxes for Retail, will be sent on application from either the Wholesale or Retail Trade.

# RETAIL CHEMISTS

Cannot gain the confidence of their customers by serving them with a ready prepared and labelled parcel (like a patent medicine) in filling the prescription of a Physician. Injury is done to the Physician, as well as to the reputation and pocket of the Chemist who takes such action. The Chemist should supply the most accurately prepared, beautifully finished products, from the purest materials, in the form that receives the endorsement of the Physician. The successful Manufacturing Pharmaceutical Chemist, with a large output, can secure the best chemical ability, the best and purest materials, and will be able to supply standard Pharmaceutical Preparations accurate in dosage, elegant in appearance, beautiful in finish, at less cost to the Retail Chemist than in his smaller way he could produce them himself. Messrs JOHN WYETH & BROTHER, Manufacturing Pharmaceutical Chemists Philadelphia, U.S.A., and 30 Snow Hill, London, E.C., have for nearly a half century studied closely the needs and wants of the Medical Profession and of Retail Chemists. The Pharmaceutical Products of this house are noted for their

# PURITY, ACTIVITY, AND BEAUTY.

They are sold in such sized parcels, and at such prices, as enable the Retail Chemis to answer a prescription and make a prescription profit. Messrs. JOHN WYETH & BROTHER were the Pioneer Manufacturers in Pharmaceutica Chemistry, and they present the results of experience, intelligence, the mos complete appliances, and a superintendence of the highest commercial integrity in their list of elegant Pharmaceutical Preparations, among which especial attention is called to the following:—

Compressed Pills (or Powders), plain and sugar-coated; Soluble Compressed Hypodermic Discs; Compressed Ophthalmic Discs (John Wyeth & Brother were the first to manufacture these compressed drugs, they are the largest manufacturers of compressed drugs, and they supply any formula desired, in quantities for prescription purposes); Wyeth's Beef Juice, Wyeth's Wine of Tar, Wyeth's Glycerole Chloride of Iron, Wyeth's Elixir Digestive Ferments, Wyeth's Dialysed Iron Wyeth's Digestive Ferments (Pepsin, Pancreatin, Amylopsin, &c.)—all of which are favourably known to the Medical Profession, and are valuable adjuncts to the successful Chemist's stock-in-trade.

Buyers of the products of JOHN WYETH & BROTHER should see that the full name of the firm and the Philadelphia address, and the name and address of the resident representative, WILLIAM F. HORTON, 30 Snow Hill, London, E.C., are upon every label. Price-lists, samples, and literature on application to the London office.

July 28, 1894.

HIGHEST

AWARD,

CHICAGO

1893.

PRINCIPLE

OF ALOES.

MANUFACTURED BY THE DISCOVERERS-

CO., **EDINBURGH** AND & LUNDON.

"The uniformity in strength of Aloin, the smallness of its dose, and the certainty of its action, should commend it to the favourable consideration of all medical practitioners."—Vide Dr. Wm. Craig's investigations respecting our Aloin, published in the Edinburgh Medical Journal for May, 1875.

Edinburgh Address—21 Duke Street. London Address-12 Worship Street, E.O. New York Office-20 Cedar Street: DILLON & CO., Agents.

(ESTABLISHED A.D. 1755).

Manufacturing Chemists. Wholesale and Export Druggists SOUTHWARK STREET, LONDON.

SELECTED DRUGS, PURE CHEMICALS, & PHARMACEUTICAL PREPARATIONS

PRICE LIST OIL APPLICATION.

Trade Notice.



Trade Notice.

# ATKINSON & BARKER'S

Established by 100 years' experience as a safe and effective Medicine.

WHOLESALE AND EXPORT ORDERS SUPPLIED FROM THE MANUFACTORY-11 RUSSELL STREET, DOWNING STREET, MANCHESTER.

SHOW CARDS AND BILLS ON APPLICATION.

## CHEMICAL DISINFECTANT.

10 and 15 % CARBOLIC Antiseptio and Deodorising Powder. Bags and casks free.

ACENTS WANTED to supply Corporations and large users.

6d. and 1/-Decorated 4/- and 8/- per doz. Boxes.

Special terms for 6 gross and up-wards, with agent's name and address thereon.

## CHESHIRE BIRD LIME.

In 1d., 2d., and 3d. tins. Also in 1, 2, 3, and 7 lb. Tins and Casks, for large consumers and the trade.

The new and attractively labelled tin boxes are very convenient and handy for use and retailing.

SAVE TIME AND TROUBLE.

(TRADE MARK).

Transparent Cement for Broken Articles.

# CUE CEMENT.

(Brass or Wood).

TIPS, WAFERS, CHALKS.

A fusible imperishable Cement for Stone and Iron Work Bedding, &o.

## SAPO LINI.

## LINSEED SOAP

(A Saponified Linseed Jelly). In Brown Windsor or "Rosotto" Tablets.

Prices, Circulars with Name and Address, Specimens, Show Cards, Glass Tablets &c., &c., on application.

LIMITED, ST. PETERSGATE MILLS, STOCKPORT. Founded A.D. 1786, Incorporated 1887

# Red Cross Lint.

PRICE 1 lb. 1/9

28 ,, 1/8

 $112^{00}$ ,, 1/6

Order a

Sample Pound!!

### THE ONLY GENUINE RED CROSS LINT

was introduced by Burgoyne, Burbidges, & Compy. in 1877.

This Lint is easily tearable both ways, and has given great satisfaction in Field and Hospital Practice at Home and Abroad.

None is genuine unless wrapped in BLUE paper, bearing our registered label with a cross in RED.

The increasing demand for this brand of our Lint is sufficient guarantee of its excellence and great utility. We cannot recommend it too highly.

# Red Cross Bandages

These Bandages are possessed of great strength, are elastic, light, and porous. They expand equally with the middle, and will not cut in the least degree, the pressure being even throughout. For all surgical purposes these Bandages are superior to the old kinds. Where firm support is required, they will be found highly adapted to receive Starch or Plaster of Paris, on account of the openness of the texture.

6 yards long, 2 inches wide 1/9 per doz. 18/- per gross.

6 yards long,  $2\frac{1}{2}$  inches wide 2/3 , 24/- ,

6 yards long, 3 inches wide 2/9 ,, 30/- .

BURGOYNE, BURBIDGES, & COMPY., 16, Coleman Street, London.

## THOMAS TYRER & CO.

Manufacturing Chemists, STIRLING WORKS, STRATFORD, LONDON (WORKS ESTBD. 1844), ENGLAND.

#### WHOLESALE ONLY.

ACETIC ACID, B.P., 1 to 7, GLACIAL, &c.

PURE ACIDS FOR ANALYSIS.

Hydrobromic, Hydrocyanic B.P., B.P.C. Hypophosphorous.

TECHNICAL ACIDS.

Fluoric, Etching, Matting, Dipping, and Colour Acids.

PURE PHOSPHORIC ACIDS Free Arsenic, Sulphur, and Lime.

AMMONIUM CARBONATE, &c.

ANTIMONY SULPHIDES, CROCUS, &c.

BISMUTH SALTS.

Subcarbonate, Subnitrate, Oxychloride, Salicylate, &c.

PRECIPITATED CHALK, White and Light.

ETHERS METHYLATED AND PURE.

FRUIT and FLAVOURING ETHERS and ESSENCES.

HYPOPHOSPHITES.

DR. NORMAN'S

SYRUP OF HYPOPHOSPHITES.

FREE ALKALOIDS.

IRON SALTS,

Carbonate Precip., Saccharated, Perchloride, Sulphate, Cryst.

LITHIUM & STRONTIUM.

Carbonates, Bromides, Iodides, Lactates.

MANGANESE and LEAD SICCATIVES,

Borates, Linoleates, Resinates, and Sulphates.

MERCURIALS.

Pure Medicinal, Technical, Anti-Fouling, Kyanising, &c.

POTASSIUM,

Acetate, Bicarbonate, Cyanide, Oxalate, Sulphuret, &c.

PYROXYLIN AND COLLODIONS,

Pure, Methylated, and Flexile.

SCALE AND CRANULAR PREPARATIONS.

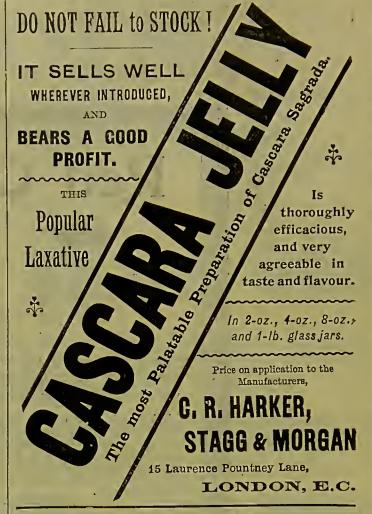
SPIRIT NITROUS ETHER & AROMATIC AMMONIA.

TEREBENE.

THIOCAMF DISINFECTANT.

ZINC Oxide, Carbonate, Sulphate, Sulphide, Valerianate. Special, Fine, and Technical Chemicals as required.

MEDICINAL SPIRITS AND FRUIT ESSENCES IN BOND.





GREAT REDUCTION IN PRICES!

#### **GAPSULES** DENOUAL'S

ARE THE BEST AND CHEAPEST.

ON 'THESE

MEDICINAL **CAPSULES** 

OHEMISTS ARE ALLOWED

PERUVIAN MIXTURE CAPSULES, COPAIBA BALSAM CAPSULES, CUBEB OIL & COPAIBA CAPSULES, MALE FERN CAPSULES, &c.

DENOUAL'S INJECTION.

SANTAL OIL CAPSULES

A LARGE PROFIT. All Drugs Warranted to be Genuine

JULES DENOUAL,

Carlton House, 4 New Cross Road, LONDON, S.E.

WHOLESALE TRADE ONLY.

## STAFFORD ALLEN & SONS

(ESTABLISHED 1833),

DRUG MILLERS, OIL PRESSERS,

DISTILLERS OF ESSENTIAL OILS,

7 COWPER STREET, FINSBURY, LONDON, ENGLAND,

## EXPRESSED OILS

ALMOND (Ol. Amygd. Dulc.) PEACH KERNEL (Ol. Amygd. Persic. Dulc.) Frequently imported as Ol. Amygd. Exot. CROTON

## ESSENTIAL OILS

ALMOND CARDAMOM

CORIANDER JUNIPER

PEPPER

ANISEED

CELERY

CUBEB

NUTMEG PIMENTO BUCHU

CINNAMON CUMMIN

ORRIS ROOT

CARAWAY

CLOYE DILL

PEACH KERNEL

SANDAL WOOD

AND OTHERS.

HIGHEST AWARDS CHICAGO, 1893, "FOR OILS OF EXCEPTIONAL PURITY AND STRENGTH."

## GEORGE ALLEN & CO.

(ESTABLISHED 1846),

AMPTHILL, BEDFORDSHIRE, ENGLAND,

## MANUFACTURING CHEMISTS,

Medicinal Herb Growers, Distillers, Manufacturers of

SOLID & FLUID EXTRACTS, JUICES, &c.

London Agents-STAFFORD ALLEN & SONS.



Prepared with Drugs of the Finest Quality.

Net Price List, cash with order, in 10-gross tins. SAMPLES ON APPLICATION.

Per Gross. .. 6d. Pil. Aloes c. Ferri.. Pil. Coto c. Hydr. .. 1s. ., c. Asafœtid. .. 7d. " Ol. Ricini ... .. 6d. Blaud's .. .. 6d. Opii (gr. j.) .. 1s. .. .. 11d. " Coto Co... Podophyllin (gr. 1) 9d. " c. Hyosc. .. 1s. Rhei Co. 6d.

DAVID P. WALKER, CHEMIST. NEW CITY ROAD, GLASGOW.

H. AURUUTUUR

Telegraphic \_\_ "Cox Brighton."

Proprietors of "COOFREY'S EXTRACT OF ELDER FLOWERS," &c.

"The Original Makers of Tasteless Pills."

BRIGHTON.

QUOTATIONS SAMPLES FREE

94:

POVERTY OF ANÆMIA OR BLOOD

EQUAL. HAVE

We are willing to supply a very attractive and beautifully-tinted showcard, the size of which is 12 by 16 inches, to any chemist on application. The design is a lady's head surrounded by a wreath of various fruits and their leaves, each fruit being reproduced in its original colour. This card is unique and cannot fail to attract notice when placed in a shop window. Jolly's "Duchess" Pills are being well advertised; the sales are large and steadily increasing. We will supply these pills at the most reasonable terms providing you agree to show the card above mentioned in your window; and to every

purchaser of 12 or more boxes we will give a written guarantee to take back any boxes not sold within a year (and return the money), if the seals have not been broken.

We will be glad to supply dummy boxes to any chemist who will undertake to exhibit them.

& SON, 219 OXFORD STREET, LONDON, W. Write for full particulars, JOLLY



#### R-COATED PI PUREST DRUGS.

SOLUBLE, RELIABLE IN ACTION, PERMANENT. Special Net Price List. Cash with Order. Gross Screw-capped Bottles 1d. per grs. lots grs. lots Packed in Gross Screw-capped Bottles grs. Packed in Gross Screw-capped Bottles grs. lots 50 | 100 Per grs. 50 103 grs. grs. grs. grs. grs. ld. per gross extra. 1/- 11 d. 10 d. 1/2 1/- 11 d. 9d. 8d. 7d. 8d. 7d. 6d. 8d. 7d. 6d. 1/- 11 d. 10 d. 9d. 7d. 11d. 10d. Podophyllin ..... 6d. 5d;

Hamilton 1/1 1/- 11d. 10d.
Indigestion 1/- 11d. 10d. 9d.
Laxative 10d. 9d. 8d. 7d.
Ititle Liver 5d. 4\forall d. 4d. 3\forall d.
Liver 1/- 11d. 10d. 9d.
Mercurish 8d. 7d. 6d. 5d.
Neuralgia 1/- 11d. 10d. 9d.
Opium 1/- 11d. 10d. 9d. Antibilious ..... Antibilions 1/- 11d. 10d. 9d. Assafectida 8d. 7d. 6d. 6d. 6d. Blaud 6d. 5d. 4\frac{1}{2}d. 4d. 4d. Castor Oil 9d. 8d. 7d. 6d. 6d. Colocynth 1/- 11d. 10d. 9d. Dandelion 1/- 11d. 10d. 9d. Female, Al. et Ir. 8d. 7d. 6d. 5d. Gregory 1/- 11d. 10d. 9d. 9d. Quinine ...... Rhubarb ..... 1/- 11d. 9d. 8d. Tonic Vegetable, &c....

The Pills are also put up in glass tubes containing 4, and the Little Liver 8 in each tube, and sell at One Penny per tube. They are packed on cards of 3 dozen, and in gross boxes with glass lid at 7/- per gross tubes assorted; also in screw-capped bottles to sell at 6d., 3/6 per dozen, 36/- per gross bottles; 6 gross assorted 1d. tubes in handsome mahogany case, 42/-.

Private recipes compounded, rolled, and coated, in 8 to 10 days, made all sizes from ½ to 4 grains. The formula for any Pill will be given when required. Wholesale Agents—HATRICK & Co. (LIM.), 31 Snow Hill, Londou, E.O.

ANDERSTON APOTHECARIES' HALL, WASHINGTON STREET, CLASCOW.

Telegraphic Address." Liliputian Glasgow."

GUARANTEED ABSOLUTELY PURE.

NO OIL EXTRACTED, NO BUFFAM ADDED.

£15 per ton, 16/6 per owt., 8/6 per 56-ib. bag, carriage paid; or put up in tins for Retailers. Liberal Discounts to Hospitals and Wholesale Buyers. Samples Free. Feeding Linseed a Speciality.

SIZER BROS., Crushers, TOWER OIL MILLS, HULL. 56

### READ AND

THE ART OF DISPENSING. Price 31. 6d.

ALPE'S HANDY BOOK OF MEDICINE STAMP DUTY, Price 2s. 6d. PROCTOR'S MANUAL OF PHARMACEUTICAL TESTING. Price 2s. 6d.

VETERINARY COUNTER PRACTICE. Price 31.64.

Published at the Office of THE CHEMIST AND DRUGGIST,

42 Cannon Street E.C.

# PINK PILLS FOR PALE PEOPLE.

#### UNDERTAKING.

STAMP.

 $T_0$ 

Dr. Williams'

Medicine Co.,

46 Holborn Viaduct,

Londen, E.C.

3. THOMAS MARSDEN COOK, of 39 Market Street, Hindley, do hereby, in consideration of your foregoing legal proceedings against me for infrir gement of your Trade Mark, and for selling Pills styled "Cook's Pink Pills for Pale People," in violation of your legal rights, apologise for any injury I moy have done to you, and undertake in future not to sell any article so styled or otherwise styled in violation of your legal rights, as aforesaid.

I have sent to your solicitor,
Mr. C. Urquhart Fisher, of
No. 45 Holborn Viaduct, all
Labels and Pills in my possession or control of which you
complain, in order that he
may destroy them.

Dated this 20th day of July, 1894.

T. M. COOK.

The attention of the Dr. Williams' Medicine Company has been drawn to infringements and colourable imitations of the Trade Mark and Title of Dr. Williams' Pink Pills for Pale People.

Conceiving that these infringements and imitations may have been issued in ignorance of the Company's established legal rights,

## THIS FRIENDLY INTIMATION

is issued to the trade generally.

In ALL future instances, legal proceedings will be taken, and prosecuted to the utmost, for the protection of the Company's rights in the said Trade Mark and Title.

Energetic steps are being now taken in every town to detect infringements; but in case any such infringements should have been overlooked by the Company, and as these proceedings are instituted in the common interest of all who sell Dr. Williams' Pink Pills, and for the protection of retailers against fraudulent and unfair competition,

## INFORMATION

(WHICH WILL BE RECEIVED IN ABSOLULE CONFIDENCE) is invited from all readers of this Notice.

Attention is called to the accompanying under-taking.

DR. WILLIAMS' MEDICINE COMPANY, 46 HOLBORN VIADUCT, LONDON, E.C.

To Chemists and Druggists, Wholesale and Retail.

It having been brought to our knowledge that certain Chemists in the United Kingdom are selling as Bromidia a substance not manufactured; by Messrs. Battle & Co., We Hereby Give Notice that legal proceedings will be instituted to restrain any persons from selling under the title or name of Bromidia, or any name which will be liable to be mistaken for the same, any substance not of the manufacture of Messrs. Battle & Co. We are the Sole Wholesale English Agents for this preparation.

Yours faithfully,

ROBERTS & CO.,

76 New Bond St.,

London, W.

16th June, 1894.

PRODUCES HEADACHE, SICKNESS, NOR CONSTIPATION. NEITHER PREPARED EXCLUSIVELY FROM OPIUM.

Although many new hypnotics and analgesics have been recently introduced, NEPENTHE still holds its position as the hypnotic and sedative par excellence. "Nepenthe" is registered under the Trade Marks Act, and is our sole property. No other preparation should be substituted when Nepenthe is ordered in a prescription.

Sent out in bottles bearing a label in white letters upon a green ground. We prepare also Double Strength Nepenthe, and Glycerole of Nepenthe (eight times the single strength) for hypodermic injection.

TERMS PRICES AND ON APPLICATION.

WHOLESALE AND

EXPORT DRUGGISTS. BOYCE BROS., ST., LONDON, E.C.

AGENTS FOR BIEBER, DIEDR. HAMBURG:

Tinctures, Ethers, Liniments, and Spirituous Extracts, &c., prepared with purest Spirit, and from best quality of raw Drugs, in accordance with requirements of British and other Pharmacopæias.

10D0F0RM (absolute) **IODINE RESUBLIMED** POTASSIUM IODIDE

SODIUM IODIDE

All Preparations of BROMINE SANTONIN (from Turkestan factory). **COCOA BUTTER** CASTOR OIL **CHLOROFORM** 

COD LIVER OIL RESINA JALAPÆ RESINA SCAMMONIÆ

Dr. THEOD. SCHUCHARDT. GOERLITZ:

Pure Fine Chemicals, &c., &c.

Dr. HAARHAUS å PRETORIUS, NIEDERSEDLITZ (Saxony): Tannie, Gallie, and Pyrogallie Acid.

CLYCERINE, ANILINE DYES, CELATINE, ULTRAMARINE, CITRIC ACID, HEAVY CHEMICALS. 58

## THE MEDICAL PROFESSION AND CHEMISTS.

Owing to misapprehensions as the amount to morphine used in the preparation of

## Mrs. WINSLOW'S SOOTHING SYRUP,

we wish to state that the amount is one-eighth (1/8) of one grain to a fluid ounce. As there are eight teaspoonfuls to an ounce, the amount of morphine in a teaspoonful, our maximum dose, is one sixty-fourth (1/64) of a grain.

It will be seen that this is very much less than the quantity used in similar preparations authorised by the Pharmacopæia.

> The Anglo-American Drug Company (Lim.), W. RENAUD, Managing Director.

33 Farringdon Road, London.

Of Highest Quality and of Absolute Chemical Purity.

MORPHINÆ HYDROCHLORAS, PUR. B.P.,

CODEINA CRYSTAL, PUR. B.P.

Ditto

in Lots of 10 oz. 5/6 per oz.

in Lots of 100 oz. 5/3 "

Ditto

in Lots of 5 oz. 13/9 per oz. in Lots of 50 oz. 13/6

Packed in Tins, and delivered free of all charges to any address in Great Britain or Ireland in exchange for Cash, by money or postal orders, or drafts on Bombay through the Hong Kong and Shanghai Banking Corporation, London, or other Indian banks; or in exchange for bill of lading against shipping documents. Larger quantities at lower prices!!

BERTIE SMITH & CO.,

Manufacturing Chemists, Wholesale and Export Drug Merchants, and East India Agents for the Wholesale Drug Trade,

BOMB

Sole Agents for India, Burma, and Ceylon, for Fahlberg, List & Co.'s Saccharin, J. & E. Atkinson, and other well-known firms

B. & S. BRAND

PIRIRA

. & S. BRAND

CINCHONA PREPARATIONS. SULPHATE OF QUININE, and all other

ACETANILID, CUMARIN. GALLIC ACID, CHLORALHYDRAT, COCAINE. HELIOTROPIN, GLYCERINE,

SALICYLIC ACID & SALICYLATES, STRYCHNINE, TERPIN HYDRAT, &c.

STOCKS KEPT IN LONDON; GLASGOW, AND DUBLIN.

AGENTS.—LONDON: Messrs. DOMEIER & CO., 13 St. Mary-at-Hill, E.C. GLASGOW: Messrs F. R. MUELLER & CO., 47 Waterloo Street. DUBLIN: Mr. JOS. LECKY, 26 Eustace Street.

Sole Agents for Australia—Messrs. RABONE, FEEZ & CO., SYDNEY, N.S.W.

69

# RRUCKSPURE

THROUGH THE CHIEF WHOLESALE HOUSES.

HUBBUCK & SON, THOMAS

STREET, LONDON, IME



MANUFACTURING CHEMISTS.

Manufacturers of Acids, Æthers, Sp. Æther. Nit., Sp. Ammon. Arom., Liq. Ammon., Soldering Solution, &c., and preparations of Alum, Animal Charcoal, Antimony, Baryta, Bismuth, Strontia, Zinc, &c.

STREET, SAFFRON

Works:-WEST DRAYTON, MIDDLESEX. Telegraphic Address :- "ETHERMETHYLATED LONDON."

## GREEN,

Hydrogen Peroxide, Indigo Extract, Orchil, Cudbear, Logwood Extract, Aniline Dyes. Sole Agents in United Kingdom and Colonies, excepting Canada, for

The New Bleach, (Aluminium Co., Ltd.). PEROXIDE For Bleaching Wool and all Fibres. For Metallurgy,

CARBONATE, CALCINED, AND HYDRATE.

#### MAGNESIA. PURE

THE WASHINGTON CHEMICAL CO., LIMITED, WASHINGTON, COUNTY DURHAM, ENGLAND.

ASTON CLINTON,
July 3, 1894.
To CHEMISTS AND DRUGGISTS.

Re " VĪROL."

We should feel extremely obliged if Chemists would kindly tell their customers who are taking "VIROL" that the largest size (3/6), holding 1½ lb., is by far the cheapest form of buying it; in fact, the next size smaller (2/6) only holds half this quantity. The small size (retailing at 9d.) is useful for those who might wish to try it before ordering a larger quantity.

## SOMETHING OF THE ORIGIN AND THE ACTUAL INTRINSIC VALUE OF "VIROL"

We have no hesitation in saying that "VIROL" is, without doubt, the cheapest form of bone-marrow; and, in fact; the weight of the contents of a full-sized jar (retail price 3/6) is equal in weight to the entire marrow obtained from the entire ex—of which only eight hones can be utilised for this purpose. Medical men may ask how it is we can supply marrow fat on such an economical basis. Our answer is that in the production of Caffyn's Liquor Carnis marrow hones are practically waste material with us—and, in fact, until. "VIROL" was invented we sold them to the rag-and-hone dealers at a few pence a hundredweight, as, our works being in the country, we were too far from the market of consumption to effect sales for culinary purposes; so that the production of "VIROL" would directly be a loss to us were it not for these accidental circumstances; but for this fact "VIROL" would never have seen the light of day.

"VIROL" is sold in Stone Jars, refail, at 9d., 2/6, and 3/6 (14 lb.)

## THE LIQUOR CARNIS COMPANY (LIMITED), LONDON, E.C.

WILLIAM SHEPPERSON,

Managing Director.

AND ASTON CLINTON, BUCKS (Head Office).

## HIRST, BROOKE & HIRST (LIM.), LEEDS,

Manufacturing Chemists and Wholesale Druggists, Manufacturers of

## ORANGE WINE

Of Finest Flavour and Quality, and specially suitable for the Preparation of Orange Quinine Wine.

## THE MAWSON FILTERS.

(BY ROYAL LETTERS PATENT).

GLASS, EARTHENWARE, TOURIST POCKET, MAIN SERVICE.

New Illustrated Catalogue and Prof. Tichborne's special report forwarded on application.

THE MAWSON FILTER CO., 137a Pilgrim Street, NEWCASTLE-ON-TYNE.

BY ROYAL



LETTERS PATENT.

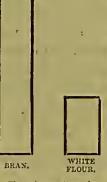
## "CEREBOS"

(Not Medicine, but Food).

The New Table Salt "Cerebos" contains the concentrated Food strength (Phosphates, etc), of bran, which is required to form the actual substance of the Bones, Brain and Nerves, but which is absent from White Bread.

The "Cerebos" Nutritive Table Salt is used instead of the common salt for every purpose; at table, and in salting bread, puddings, soups, stews, etc. In this way all the valuable constituents of the grain are restored for the use of the system.

Now the use of "Cerebos" Salt in the food, instead of the common salt, "will generally obviate the necessity for giving chemical food, as it contains the most important constituents of it, and it is obviously a much more natural and rational way of supplying the deficiency of the necessary substance, than allowing the health to suffer through the gradual deprivation of them, and then supplying them by dosing with chemical food."—See Medical Reports.



The above show the proportion of Phosphates in Bran and White Flour. White Bread Salted with "Cerebos," instead of common salt, equals Wholemeal Bread.

Prices: 1d., 6d., and 1s.
Full Particulars and Samples Free. (Correspondence invited).

The CEREBOS Salt Co., Ltd., Picton Works, Newcastle-on-Tyne.

# "YORKSHIRE" BIRDLIME.

Excels all others in tenacity. The only Birdlime in the market which is suitable in all particulars for the manufacture of

STICKY FLY PAPERS.

SOLE MAKERS-

# WILLIAM BLEASDALE & CO. YORK,

Who will be pleased to forward samples and prices on application.

## Schering's Glycero=phosphates of Lime, Soda, and Chinin.

These salts have distinctive physical forms of perfect chemical composition. The difficulty of the preparation of these compounds, which are the subject of Mr. A. Robin's paper on the treatment of neurasthenia, has prompted Messrs. Schering to devote special attention to their manufacture in absolute purity.

## Schering's Piperazine

is rapidly gaining favour as a more energetic and non-poisonous solvent of uric acid. It exists in two forms of absolute purity, namely, the crystals and slightly compressed tablets of 15 grains each, which freely crush under pressure. This latter is the more convenient form, as they represent the full daily dose, and half may be taken twice a day.

### Schering's Phencoll Hydrochlor.

is a soluble Phenacetine prepared by the interaction of Phenetidine and glycocoll amidoacetic acid.

Satisfactory results are recorded from its employment as an anti-febrile in phthisis and other pulmonary affections, in ileotyphus, &c. (Herzog, von Mering, Hertel, Jacobi, Cohnheim), as an anti-rheumatic, especially in acute forms (Hertel, Cohnheim), and as an anti-neuralgia (Herzog, Aronson, Cohnheim), as a specific in malarial fever (V. Dall'Olio, Albertoni, Prati, Novi, Venturini, Cucco, G. Colosanti, G. Geronzi).

Given in 8-grain doses when the febrile temperature fluctuates between 9° and 40.5°, a reduction of about 2° is obtained, accompanied by more or less profuse perspiration; in acute rheumatism the same dose was given three to seven times a day; a very rapid effect was produced upon the pain and swelling.

## Schering's Salocoll

(is Phenocoll salicylate) will be found, in its action, fairly identical to the hydrochloride, and is preferred by some authorities. Dose is the same.

## Schering's Rubidium Iodide

is an improved form of Iodide and substitute for Iodide of Potassium. It will be remembered that rubidium is one of the two rarer metals, rubidium and caesium, discovered by Bunsen. The molecular weights of the metals are—Sodium 23, Potassium 39, and Rubidium 85.

The logic capable of being drawn from these favourable conditions, for an improved Iodide salt of the Rubidium base, will at once recur to the mind of the physiologist, and so far has already found considerable interest in the medical press of this country.

## Schering's Trikresol.

This is the concentrated preparation of the three cresols, ortho, para, and meta, the active ingredients of coal tar oils. These three cresols are present here in their full strength of 100 per cent. as a water-white clear liquid of pleasant creosote-like odour, and free from the faint smell of carbolic acid. Trikresol is soluble in cold water to the extent of 2·2 to 2·55 per cent., and, as Fraenkel and Gruber have shown, the 1 per cent. is equal to 3 per cent. of carbolic acid, hence Trikresol has a disinfectant value three times that of carbolic acid, and one-third the toxity.

## Schering's Formalin

is the saturated watery solution of 40 % formic aldehyde CH<sub>2</sub>O. It may be said of it, speaking in the sense of the medical practitioners, that the more we use of it the more we like it. Formalin has already found a great number of friends in the principal London hospitals and post mortem rooms. Its great antiseptic value in all forms of zymotic disease, its antifermentative and deodorent services of all bedroom malodours and excrementitious matter, coupled with its harmlessness to the human organism and all articles of textile goods and furniture (wood or metal), and also its inexpensiveness, clearly indicate its general and liberal use by the medical profession as a germicide and preventative of zymotic disease. It should be ordered in 1 % solutions, for which full directions apply.

For Literature, vide "The Therapist," published by Aug. Siegle, 30 Lime Street, E.C.

TO BE OBTAINED FROM ALL WHOLESALE DRUG HOUSES.

SOLE WHOLESALE AGENTS:

A. & M. ZIMMERMANN, 6 & 7 CROSS LANE, LONDON, E.C.

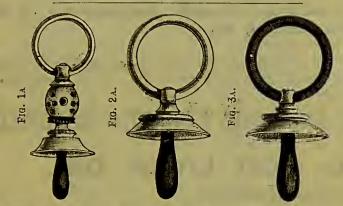
MARRIOTT'S



PATENT

IMPROVEMENTS.

Figs. 1, 2, and 3, with Patent Unbreakable Ring and SCREW SHIELDS, TEAT CONCAVE SHIELD SECURELY FIXED.



Retail at 6d. Other Patterns supplied as usual.

## E. MARRIOTT & CO. HASTINGS

A GOOD LINE FOR THE TRADE.

POISON PREVENTIVE.

printed a series of numbers from arranged in connection with the distinguishes medicine bottles from others containing poisons or preparations **not** intended to be taken. It comprises a label or tablet of paper, upon which is printed a series of numbers from 1 to 12 inclusive. A pointer is arranged in connection with the label so that it might be set opposite any of the numbers to indion Medicine Bottles, for recording the last dose or when the next dose should of paper, upon inclusive. A poi time of



The label is gummed to or suspended from the bottle, or be placed in any convenient position in the patient's room luse only is being administered. It enables readily distinguish the bottle, thus obviatidents, and is valuable for family use, by time when a dose was last taken or when it should be next travellers, or for general and Chemists. cate the time when a dose was las given. The label is gummed to it may be placed in any convenit medicine for internal use only the patient or nurse to readily ing the liability to accidents, nurses in hospitals, for travel

Special Terms to the Trade, Apply to the Patentee-

J. FEAVER, 83 Croydon Rd., ANERLEY, S.E.



Homeopathic Chemists

(LIMITED).

48 Threadneedle Street,

London, Eng.

## PAYING LINES FOR

Per doz. 3d. Turco . . . 2/-6d. " . . . 2/8 1/- " 4/6 & 5/6 Glass-top Counter Boxes of 1 doz. 6d., 3/6; 1 doz.
1/, 6/A variety of patterns
in stock.

#### SMELLING-SALT BOTTLES.

200 patterns in stock. Ask for New Price List.

#### FLAVOURING SENCES.

oz. bots. Almond, Vanilla, Lemon, &c.

## SPRAY PRODUCERS.

1/- Single Ball, per doz., Good Double Ball Sprays at 15/-, 21/-, 24/-, 27/-, and 33/-.

#### BATHING CAPS. 6d., 4/6; 1/-, 7/6 per doz.

SPONCE BACS.

BEST QUALITY.
No. 1 2 3 4 5 6
4/65/67/-8/610/-12/Per doz.

#### SPONCES ON CARDS.

At per doz. 1d. 2d. 3d. 4d. 6d. 1/-6d. 1/- 1/6 2/- 3/- 6/-

#### SPONCE NETS. Per doz. 4/6, 8/-, 12/-.

#### INSECT POWDER TINS.

Per gross.
1d., 2/3; 3d., 5/6; 6d., 7/9; 1/-, 9/-.

#### LAVENDER SMELLING SALTS.

THE IMPERIAL. 6d. retail, per doz. 4/-.

## EXTRACTORS.

New shape to hold the Juice. Per doz., 3/6.

#### LIME JUICE AND CLYCERINE.

6d., 3/4; 1/-, 6/8 per doz

#### CARDED COODS: SOOTHERS.

#### COMBS.

THE "SAMPSON."
Size 7 in. 71 in. 8 in.
Per doz. 2/- 2/6 3/-

2d. Perfumes, 1/3 per doz. 2d. Musk Lavender, 1/2 per doz. 1d. Flower Seeds, 6/- per gross. 3d. Flexible Hair Curlers, Per card, 1/9, &c., &c.

Druggists' Sundries of all kinds, such as Vials, Corks, Dispensing Flats, Wax, Twine, Trusses, Bougles, Catheters, Bottle Caps, Measures, Pill Boxes, Willow Boxes, Elastic Appliances, &c., &c., kept in stock.

#### & SONS FRANCIS NEWBERY

(ESTABLISHED A.D. 1746),

Druggists' Sundriesmen and Perfumers, 1 & 3 KING EDWARD ST., LONDON, E.C.

# MALT EXTRACT. E. LECONTE & COY.

THE LARGEST MALT EXTRACT MANUFACTURERS IN THE WORLD.

3 GOLD MEDALS AND LEGION OF HONOUR for Scientific Improvements in the Manufacture of Malt Extract, &c.

DIASTASIC MALT EXTRACT, prepared in Vacuo from the finest Barley, and specially made for Manufacturing Chemists to combine with other preparations. Also for Medicinal purposes, Brewers, Vinegar and Wine Makers, Bakers, and Confectioners.

MALT EXTRACT MANUFACTURED ANY DIASTASIC STRENGTH REQUIRED.

## MALT EXTRACT AND COD LIVER OIL.

Samples and Quotations on Application.

Wholesale & Export—HORSESHOE ALLEY WAREHOUSES, BANKSIDE, LONDON, S.E.

MANUFACTORIES-

ESTAIRES, LA GORGUE, MARCOING, & DUNKIRK, FRANCE.

## W. SUTTON & CO.,

76 CHISWELL STREET (late 10 Bow Churchyard), LONDON,

SOLE MAKERS OF THE

## ORIGINAL BATEMAN'S DROPS & DAFFY'S ELIXIR.

Proprietary Medicines, Perfumery, Mineral Waters, Lozenges, Druggists' and Photographic Sundries.

PRIOR LIST FREE ON APPLICATION.

## THYROID EXTRACT

(FOR MYXŒDEMA).

A Glycerine Extract of fresh Thyroid Glands, nniform in strength. Prepared from healthy glands, selected under veterinary supervision. A permanent preparation not liable to decomposition. Well suited for internal administration. A certain remedy for the hitherto inevitably fatal Myxœdema. Useful in Goitre, Cretinism, &c. Found very successful in the treatment of Psoriasis (see Brit. Med. Journal, October 28, 1893, page 933). Exerts a wonderful effect on the nutrition of the skin, and hence deserves wide trial in skin-diseases. Promotes the growth of the hair, and may prove of use in baldness of some kinds.

Price 3s., in 1-oz. stoppered bottles. Dose-mx. to 3j.

**THYROIDINE**, containing the active principle of the Thyroid Glands of the sheep, 4 grains equal to about one-eightb of a fresh gland. Also PILLS and TABLETS, each containing a dose of Thyroidine.

In bottles, 2s. 6d. each.

Willows, Francis & Butler, Chemists & Export Druggists, 101 High Holborn, London.

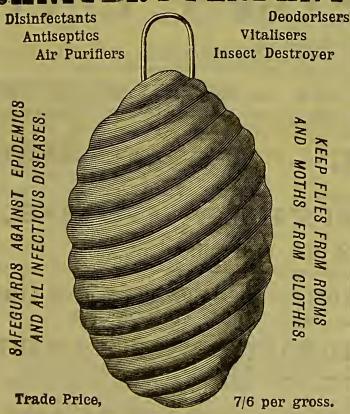
# SANITARY HEART



AND

THE PENNY

## SANITARY PENDANT



SOLE PROPRIETORS AND MANUFACTURERS-

J. BEEDZLER & CO., Manufacturing Chemists, 20 NORTON FOLGATE, E.C. Established 1700.

# SHIRLEY'S CORNER!

SPRING AND SUMMER TRADE.

THE "PRINCE" OF LAVENDER SALTS.—In Actinic Green, Amber, and White Bottles, with Stopper in form of Prince of Wales's Feathers, charming line, 4/- doz.

No. 349.—The 1894 "Monster Bottle," assorted colours, empty 3/6 doz., filled with Strong Ammonia 4/- doz.

MARVELLOUS VALUE.—Lavender Water and Cologne, in Tube-shape Bottles, with Sprinklers, 2/6 doz. Selling in thousands.

Id. **SALTS.**—Assorted colours, 7/6 gross, 3 doz. in cartoon with card for window.

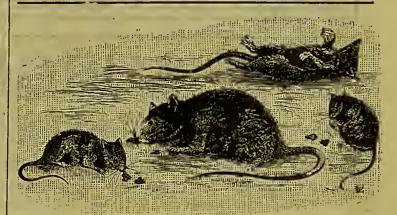
Id. DISINFECTING SHELLS.—To hang up, 7/- gross, assorted colours, 6 doz. in box with card for show.

Id., 3d., & 6d. INSECT POWDER. -5/- gross; 3d., 1/8 doz.; 6d., 3/- doz. Empty boxes for same, 1/6, 3/6, and 4/9 gross.

WISE BUYERS WON'T DELAY, BUT STOCK AT ONCE.

!!! Buyers of Mag. Cit., write us first and save money; we can offer special bargains!!!

SHIRLEY BROS., 105 Whitecross St., E.C.



# "RAT BISCUITS"

Modern Rat and Mouse Poison,

Acts like a charm. It attracts the Mice and Rats and destroys them wholesale, while there is absolutely no danger attending its use, as it contains No Poison for Human Beings or Domestic Animals.

## HEBBELER'S RAT & MOUSE POISON

is, in this respect, quite distinct from other Rat and Mice Poisons, which, as is well known, have caused innumerable losses of human life.

Retail Frice ... ... 6d. per Box.

Wholesale, 1 dozen, 4/-; 1 gross, 42/-, carriage paid to any part of the United Kingdom. Cash with order.

OF ALL WHOLESALE HOUSES, or SOLE PROPRIETOR-

K. HEBBELER, 149 Houndsditch, LONDON, E.

#### DR. MARTIN'S PURE RUBBER BANDAGES.

For the Radical Cure of Varicose Veins, Ulcers, and other Diseases of the Leg.



CAUTION.—Please order Genuine Martin's Bandages, each being stamped with Dr. Martin's signature. All others are Spurious Implations. Imitations.

Complete Price List, Trade Discount, and Dr. Martin's

	_	200				P	amphiet	post free.
No.	Thin, for ankle, elbow.	PR wrist,	and fo	earm		Feet 6	Inches 21	Each 3/6
3. 1B.	Thick ,, Thin, for leg below kr	.,, iee	"		••	6 104	2 <del>1</del>	4/- 5/8
1A. 8.	Thick ", Thin, for leg and knee		••			101	3	7/8 7/8 9/8
7. 9B.	Thick ,, Thin, for leg and thigh		••	**	**	14 21	3	9/8 10/6
9A.	Thick Agents—KROHNE &		WÄNN		HÖLL	21	3 ILMENT	13/8 MAKERS
	S DUKE ST., MAN	CHES	PER	SQUA	RE,	LONI	ON, W	<b>7.</b>

# SURGICAL APPLIANCES.

THE LARGEST MAKER IN THE WORLD.

Suspenders, Belts, Bath Gloves, Trusses, Elastic Hosiery, Chest Expanding Braces, Protectors, Enemas, Bandages. &c.

Telegraphic Addresses—
"Aome London." "Elastic Nottingham."
ESTABLISHED 1840.

3 ST. ANDREW'S STREET, LONDON, E.C.
Steam Works—Nottingham, & Herne Hill, S.E.
Stand at Industrial Exhibition, Earl's Court, Section 14, near Main Entrance,

## SURGICAL LINTS, BANDAGES,

BLEACHED, GREY AND ABSORBENT COTTONS.

SURGEONS' TOWS.

**TELEGRAMS:** 

"LINT LIVERPOOL."



PROTECTIVE LINT

WORKS:

MARK ST. MILLS, LIVERPOOL.

LIVERPOOL

## THE SURGEON'S LIN

QUALITY.

The superior quality of Newsome's Absorbent Surgeons' Lint is nniversally admitted. The V.B. quality is quite pure and of great superficial area and exquisite softness. The C., D., E., and F. qualities are equally pure and absorbent; E. is stronger in fabrio.

NEWSOME'S BLEACHED ROLLED BANDAGES, 3 in., 2½ in., 2 in. Also SURGICAL ABSORBENT OPEN BANDAGES. Specially Bleached & Grey Carded Cotton Wools, Absorbent & Bleached & Grey Waddings; also Sheet Waddings, Tow, &c.

THE TRADE SUPPLIED THROUGH THE LONDON AND PROVINCIAL WHOLESALE HOUSES, OR FROM

MANUFACTURER,

BEEHIVE MILLS, ANCOATS, MANCHESTER,

London Agents-B. PRATT & CO., 1 Wood Street, E.C.

Telegraphic Address-" Newsome, Ancoats, Manchester."

#### INDEX BUYERS' GUIDE. and

See pages 23, 24, and 25.



THE ASSOCIATION FOR THE SUPPLY OF PURE VACCINE LYMPH, MALL EAST, LONDON, S.W.,

#### WARLOMONT'S CALF

Tubes, 2s. each. Half Tubes, 1s. each. Pomade in Vials, 5s.

HUMAN VACCINE (from healthy children only, microscopically examined and source quoted).—Tubes two-thirds full, 1s. 8d. each. Tubes one-third full, 1s. each. Tubes two-thirds full (same as those mentioned above, but without source), in quantities for export, £5 per 100 Tubes. Pin Points (uncharged) 1s now down. Vaccine Figure 100 Tubes and 11s now down.

Points (uncharged), 1s. per dozen. Vaccine Ejectors, 1s. 3d. each, including postage.

Office hours, 10 to 4; Saturdays, 10 to 2. P.O.O.'s (including postage, and crossed "London and Westminster Bank") with orders, payable to EDWARD DARKE, Secretary. .

THE

## SUSPENS NDAGE

TO RECOMMEND IS THE

Loop Self-Adjusting at

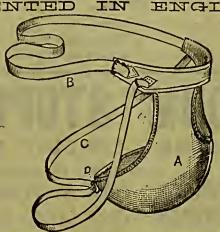
(PATENTED IM ENGLAND.)

HAS THE LARGEST SALE OF ANY SUSPENSORY BANDAGE IN THE STATES.

3 SIZES-Large, Medium, and Small.

Made in Seven Qualities, to suit all Markets.

Each Bandage is carded separately, with Printed Guarantee.



Each Bandage bears a Guarantee to give satisfaction to wearer, or money returned at our expense.

COTTON POUCHES.

Nos. 10 16 6/6 12/ 18/ per doz.

SILK POUCHES.

Nos. 28 31 38 . 24/ 80/ 48/ 72/ per doz.

We call attention to the fact that our Bandages are advertised in all the leading Athletic papers, and are largely used by Athletes of all kinds. We would strongly recommend all Chemists who require a first-rate Bandage, and who wish to give satisfaction to their Customers, to hold stock, which will enable them to supply our Bandages when asked for,

May be obtained from all leading Druggists' Sundries Houses throughout the Country, or from the

WELLS MANUFACTURING CO. (H. C. Quelch), LUDGATE SQUARE, LONDON, E.C.

CATHETER,

To be had of all Surgical Instrument Makers and Wholesale Houses.



To be had of all Survical Instrument Makers and Wholesale Houses.



OVER

STATHAMS

-----POROUS

#### LEICESTER IMPROVED ADHESIVE PLASTER

In 3-yd. rolls, 16-in. wide. containing 18 by 6 inches, to Retail 6d. In Handsomely Deco-36 by 6 rated Tins

"The Leicester" Ribbon Plasters

On flesh colour Cambric, 6 yds. long,  $\frac{1}{4}$ -in.,  $\frac{3}{8}$ -in.,  $\frac{1}{4}$ -in.,  $\frac{3}{4}$ -in., 1-in.,  $\frac{1}{2}$ -in. and 2-in. wide, in japanned tins.

MAY BE OBTAINED FROM ANY WHOLESALE HOUSE.

#### H. STATHAM & CO.'S **POROUS**

RUBBER Elastic BANDAGES. For the Cure of Ulrers and other Diseases of the Leg.

With either Tapes or Elastic Button Fastening, in Grey or Black, made from the finest Para Rubber.

Sizes and Prices each, Carriage paid. 5 ft.  $\times$  2½ in. wide  $2/-...\times$  3 in. 2/3 7½  $_{\circ}$   $\times$  2½  $_{\circ}$   $_{\circ}$   $_{\circ}$  3/ $_{\circ}$   $...\times$  3 in. 3/6  $10\frac{1}{2}$   $_{\circ}$   $\times$  2½  $_{\circ}$   $_{\circ}$   $_{\circ}$  4/ $_{\circ}$   $...\times$  3 in. 4/6 15  $_{\circ}$   $_{\circ}$   $\times$  2½  $_{\circ}$   $_{\circ}$   $_{\circ}$  6/ $_{\circ}$   $...\times$  3 in. 6/9 21  $_{\circ}$   $_{\circ}$   $\times$  2½  $_{\circ}$   $_{\circ}$   $_{\circ}$  8/ $_{\circ}$   $...\times$  3 in. 9/ $_{\circ}$ 

21 ", × 2½ ", ", 8/-...×3 in. 9/None genuine without Res d. Trade
Mark (a Human Leg) stamped on
every Bandage.
Liberal discount to Chemists on application.
New Illustrated Price List of India-

rubber and Gutta-percha Articles of every description sent free on receipt of post-card.

SOLE MAKERS AND PATENTEES

TRAVE

H. STATHAM & CO., Corporation Street, MANCHESTER,



Leslies' Patent Pliable Tape-plasters, Fine Calico, Holland, or Pink Cambric, in decorated Tin Boxes, \(\frac{1}{4}\), \(\frac{1}{2}\), \(\frac{3}{4}\), 1 and 1\(\frac{1}{2}\) in. wide, 1s. each, 9s. per doz.; extra widths, 2 in. and 3 in., 1s. 3d. and 1s. 6d. each.

Tapes, Silk, & in., 1s. each, 9s. doz. : 1 in., 2s. each, 18s. doz.

Leslies' Surgical Case Tape Piasters (assorted widths), 10s. 6d.

Leslies' Brown Holland Self-adhesive Plaster, in 6 or 12 yard Tins, 6 in. wi.'e, 3s. and 5s. 6d.
eslies' Porous Plasters (easily removed), in 1 and 3 doz. boxes.
7½ by 5 in., or in 1 or 6 yard decorated Tins.

#### LESLIES' ANTISEPTIC DRESSINGS.

LESLIES' LINT, ABSORBENT WOOL, BANDAGES. AND ALL SURGICAL DRESSINGS.

LESLIES, LTD. Bond Court House, LONDON, E.C.

67

THE BEST IN THE MARKET.

BOTTLES, &c., of ANY SHAPE OR COLOUR, at the most Reasonable Prices.

HEARN, WRIGHT & CO. (Late E. A. Hearn & Co.), Eclipse Glass Works, Chatsworth Road, Clapton, London, E.



47 LAMB'S CONDUIT ST., LONDON, W.C.,

MANUFACTURE THE FOLLOWING SPECIALITIES-

- "STIPENDUM" CORK STOPPERS, in all sizes.
- "STIPENDUM" CORK-LINED CAPS, for Pomade Bottles.
- "STIPENDUM" OPENERS, for Stoppered Aerated-water Bottles.

## STIPENDUM" GREASE-PROOF COVERED POTS.

IN TERRA COTTA, CHOCOLATE, AND BLACK.

The Grease-Proof Covered Pots have perfectly-fitting lids, are practically unbreakable and the only articles really answering the purpose intended To be had of all Druggists' Sundriesmen. Wholesale only of the Company.

#### THE PATENT

For Stencilling, Pasting, Gumming, Blacking Boots, Harness, &c., &c.

A SPECIAL BRUSH FOR INKING BOOT SOLE EDGES.

PRICE 2/- EACH.

ALWAYS READY FOR USE.



NO DIPPING IS REQUIRED. SAVES TIME AND MONEY!

Just what is wanted for Warehousemen, Workshops, Hotels, Boarding Houses, &c. For MARKING CATTLE, SHEEP, and

PIGS IT IS UNRIVALLED. Stencilling Ink, Red Marking Liquid and Electric Blacking supplied in Cans,

from 3d. to 1/-

Cap to Cover Brush, 3d. Extra.

A SAMPLE BRUSH, with cover for brush end, will be forwarded on receipt of P.O., value 2/3, carriage free, by John BLAKEY, Lady Lane, Leeds; or by the Sole Manufacturers, Inventors and Patentees,

A. & F. E. ETCHES, 74 ALBION ST., LEEDS. Agents wanted in every Town. Liberal Trade Discounts.

THE

NEW PERMANENT

PRIZE MEDAL. International Health Exhibition. 1884.

IN RUBY, BLUE, AMBER,

AND

OPAL GLASS.

AWARD OF MERIT. International Sanitary Exhibition,

Send particulars of size, subject matter, and colour, when price for one Tablet and upwards will be sent. For Proprietary Articles, 100 8 × 6 Ruby Tablets, £3 15s. 0d.

THE LONDON CORSAN, SAND-BLAST WORKS, 58A GRAY'S IN PREVENT FRAUD, DEMAND BUSINESS CARD FROM TRAVELLERS.

SUPERIOR ROUND-CORNERED ORIGINAL AND

## LES DSPENS GITTIBIDIRITS ON'S

(No. 118583)

UNEQUALLED IN PRICES CHARGED. QUALITY AT



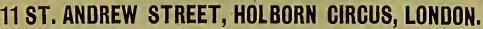
#### SPECIAL NOTICE.

We particularly ask those friends for whom we have cut NAME PLATES to stipulate when ordering lettered bottles that Gilbertson, No. 118583, is on the bottom of each bottle, as we understand Travellers (other than our own) are offering to utilise our Plates, which is manifest'y unfair to us, we having introduced and put on the market at great expense Dispensing Bottles with Rounded Corners now universally in use.

Usual Discount.

Crates Free.

Carriage Paid.



Telegraphic Address:-"FRANGIPANI LONDON."



BOTTOM O BOTTLE.



PERFECT BOTTLE FOR VASELINE, POMADES, DRY POWDERS, ETC.

NOTICE REDUCTION IN PRICES.

PRICES (in 5-gross Lots):-Fitted with STRONG METAL CAPS, CORK-LINED, in various colours, very attractive in appearance-1 oz., 10/6; 13 oz., 11/-2 oz., 11/6; 3 oz., 13/6; 4 oz., 15/6 per gross. TALL SERIES.

CHEMISTS' AND PERFUMERS' BOTTLES IN BREAT VARIETY, PLAIN OR STOPPERED.

## 

FLINT GLASS BOTTLE WORKS.

THE OVAL, CAMBRIDGE HEATH, LONDON, Telegraphic Address-"FOREFRONT LONDON."



## CORNS or BUNIONS. A GOOD LINE FOR CHEMISTS.

IT WILL PAY TO STOCK AND PUSH OUR FAMILY BOOT STRETCHERS

They will win the gratitude of customers and profit for yourselves. Worked by powerful screw action. Three Brass Corn and Bunion Pieces, which can be adapted to Relieve Pressure of Boot on any part of the Foot. WILL STRETCH OR BLOCK ANY SIZE.



RETAIL, PRICE

THE FAMILY BOOT STRETCHER.

E. & W. BELDEN, BOOT TREE & LAST MANUFACTURERS,
167 GREAT DOVER STREET, BOROUGH.
TERMS ON APPLICATION. [1]

in London or direct from GOOD AND CHEAP. the works.

THE NEW SHAPE FLATS, With rounded edges, or the ordinary kind, plain or graduated, 3 and 4 ounce ... 8/- per gross. 6 and 8 ... 9/-

WHITE MOULDED PHIALS. oz. 11 oz. 2 /9 ... 4/6 ... 5/3 PANEL BOTTLES. 2 oz. 5/3 per gross.

8 oz. 9/- per gross. 8 oz.

SPECIAL NOTICE.—Six gross and upwards of assorted sizes sent Carriage Free to any part of England. Smaller quantities not carriage paid. Sample bottle sent free on application.

## I. ISAACS & CO., GLASS BOTTLE MANUFACTURERS, Francis St., Tottenham Court Road, LONDON, W.C. Established 50 years. Bankers—London and Westminster Bank.

CBB

# A VIRGIN FIELD FOR PROFITS!

YOU DRAW THE CHEQUE. WE DO THE REST

THE ONLY UP-TO-DATE SYSTEM FOR MANUFACTURING

# SUPERFATTED TOILET SOAPS

The Milling System: Beyer Frères, Paris.

TWO GOLD MEDALS, PARIS EXHIBITION, 1889.

PROCESS AS EASY AS A B C. SYSTEM YIELDING BEST PROFITS.

ONLY PROCESS TO MANUFACTURE A FEW GROSS OF TABLETS AT A TIME.

HIGHEST FINISH AND ATTRACTIVE APPEARANCE GUARANTEED.

NO PREVIOUS KNOWLEDGE OF SYSTEM NECESSARY. VERY LITTLE ROOM REQUIRED.

SMALL OUTLAY. INSTALLATION HANDED OVER IN WORKING ORDER.

Raw Soap, Recipes, Colours, Compound Perfumes, and the whole necessary outfit, with full particulars, supplied by the SOLE AGENTS for the UNITED KINGDOM AND COLONIES—

MARTIN PERLS & CO.,

62 & 63 BASINGHALL STREET, LONDON, E.C.

IMPORTERS OF ESSENTIAL OILS, COLOURS, CHEMICALS, DRUGS, &c.

TELEPHONE No. 267.

Size 3, Type I., for 1-lb. Mass.

Universal "Machine taken to pieces for cleaning. Telegraphic Address for Home and Abroad-"SAPOLYT LONDON."



PIPERS, CUTTERS, ROUNDERS, COATERS, "SPIRAL BRUSH"
POWDER-SIFTERS

PILT.

(WITH INTERCHANGEABLE SIEVES),

AND EVERY ACCESSORY FOR THE PILL ROOM.

WERNER, PFLEIDERER & PERKINS (LIMITED),

43 Regent Square, GRAY'S INN ROAD, W.C.

SHOWROOMS:—117 QUEEN VICTORIA STREET, E.C.

SHOWROOMS:—117 QUEEN VIOTORIA STREET, E.C. Contractors to the War Offices of all the Great Powers & other Governments.

OTACO OVANIDE | GARDNER'S PATENT

POTASS. CYANIDE,

Nitrate of Silver, Chloride of Gold,

## CHEMICALS

FOR PHARMACEUTICAL PHOTOGRAPHIC AND TECHNICAL PURPOSES.

FREDK. BOEHM, 4 Cullum Street, LONDON,

AGENT FOR THE

Deutsche Gold- und Silber-Scheide Anstalt; Frankfurt a/M

## ID" SIFTERS & MIXERS



Are now working in Aimost Every Trade where DRY POWDERS are Slited and Mixed and Lumps Reduced, ali being done at one operation.

For HAND or POWER

Prices from 48/to £90.

CATALOGUES FREE

WM. GARDNER, Engineering Works, GLOUCESTER.

THE

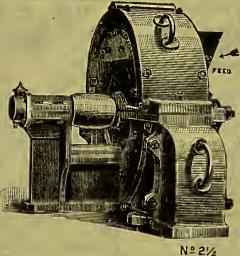


# DISINTEGRATOR.

WILL GRIND, GRANULATE, OR SHRED

DRUGS, CRYSTALS, LEAVES, SEEDS,

J. HARRISON CARTER designs complete plants for Grinding, Crushing, and Dressing any material.



ROOTS, BARKS,
BONES, SUGAR,

J. HARRISON CARTER, 82 Mark Lane, LONDON, E.C.

Telegraphic Address — "MILLING LONDON,"
Engineering Telegraph Code, A B O Code, 4th
Edition.

THE

BEST

\* Han LUBSZYNSWI \* CEERLINSOLL

8 GOLD AND SILVER MEDALS.

Last Year's Output:

15, 300,000 Boxes.

Best & Cheapest Furniture Polishing Cream the market.

Samples and Quotations on application.

Stocked by the principal Wholesale Houses.

LONDON OFFICE-4 GUILDHALL CHAMBERS, E.C.

ANCER HELMET BRAND PUTZ POMADE.

MESSRS. COMPES & CO.'S

(Ceresine Wax Refiners and Carnauba Wax Bleachers)

GUARANTEED PURE

GERESINE WAX

Can now be had in single cases from their London Stock.

PFISTER, SOLE AGENT, 15 Fore Street, LONDON, E.C.



BUY

OILPUMP

AND SAVE

CIL, TIME, MONEY.

THOUSANDS IN USE.

FIC. 2. We have bought the Stook of these Pumps from

MESSRS. PONTIFEX & WOOD;

SHOE LANE, LONDON,

Who have given up this part of their business, and it is our intention to continue same.

We hold a Good Stock, and can give Prompt Delivery.

Write for full particulars and prices of The "Farringdon"
Patent Oil Pumps to

W. H. WILLCOX & CO.

34 & 36 Southwark Street,

71.

STARCHED. MORE

Used In the Royal Laundries.

Should be used in Every House.

The Greatest Boon ever offered to the Laundress fo imparting an IVORY-FINISH to Starched Linen, Laces, &c. It does not stick to spider-web-like materials.



Once Tried, Always Wanted.

Makes Old Linen like New.

From the Chief Laundress to H.R.H. the Prince Wales:—West Newton, near Lynn, Norfolk, Aug. 29 1879. Six.—Having tried your "Stabon Gloss," I certainly think it a great improvement—far superior to any I have tried.

Yours truly,

To Mr. CRITCHLEY.

Sold by Chemists and Druggists, Grocers, Oilmen, &c., in Packets at 1d., 3d., 6d., and 1s. each.

PREPARED ONLY BY

T. CRITCHLEY, CHEMIST AND WHOLESALE DRUGGIST, BLACKBURN. BEECH LONDON DEPOT-2

In Stock, upwards of 50,000,000 Articles.

Any Special Articles made to order.

#### WOOD BOXES, &c.

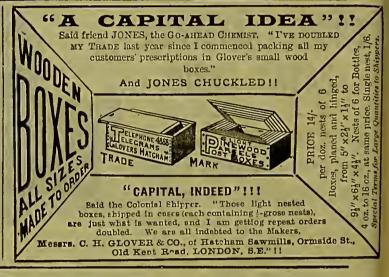


TO HOLD 6 Pills 1/6 12 24 2/-36 3/-

REDUCED PRICES for Original CONTRACTS to supply Manufacturers as required at specially low figures.

MAXIME & CO., Wood and Bone Turners, 150 OLD STREET, LONDON, E.C.

Factories and Sawmills-Gothenburg, SWEDEN, and Boulogne, FRANCE.



# N PUTNE

ENEMA, SPRAY, INHALER, AND CEDAR BOX MANUFACTURERS,

Makers of Cigar and Tobacco Boxes, Cedar and Mahogany Merchants, 75 Teesdale St., Hackney Road, LONDON, N.E.

Works-Canrobert Street, BETHNAL GREEN, E.

Telegraphic Address-"CEDAR," LONDON.

Established 1835.

## PERFORATED TO

"SANIGO," "QUEEN," "BRITISH No. 3," BRONGO," & "BEL-CAP" BRANDS.

The "BEL-CAP" contains 2,000 sheets guaranteed, of the finest quality thin paper, and should be stocked by every Druggist.

Sample dozen, 8/6.

Retails at One Shilling.

CHRMISTS SHOULD ASK THEIR WHOLESALE HOUSE, OR SEND TO US DIRECT, FOR OUR LIST.

THE "BRITISH" PAPER CO., Banner St., GOLDEN LANE, E.C. 72-



# £1,000,000

This is the sort of fortune many an old-fashioned Varnish Maker has left behind him, but

# PINCHIN, JOHNSON & CO.

23 Billiter Street, London, E.C.

Do not aspire to these big figures, but are anxious to prove that their

## WARNISHES

(In 1 Gallon Cans free) as well as their

OILS AND COLOURS

are the BEST and CHEAPEST in the Market.

Telegrams-"PINCHIN LONDON."

WRITE FOR PRICE LISTS AND SAMPLES.

Telephone-No. 2241.

DISTILLERS, FOREIGN WINE AND SPIRIT MERCHANTS, AND METHYLATORS, ALLHALLOWS' LANE AND BARTHOLOMEW CLOSE, LONDON, E.C.

Quotations for S. V. R. Methylated Spirit and Finish on application.

FINEST ORANGE WINE FOR QUININE.

JAMES RROUGH

FINE PORT (without tannin)

FINE SHERRY (for Medicinal uses, &c.)

FINE MALAGA (for Steel Wine, &c.)

FINE BURGUNDY (for invalids)

S.V.R. and Methylated Spirit at lowest present prices.

CALE ST. DISTILLERY

All at Lowest Prices and specially recommended.

CHELSEA

PERFECTLY PURE.

NET CASH

WITH ORDER.

S 56 T 60 R

TINCTURE SPIRIT

60 O.P. AT LOWEST PRICES, 56 O.P.

PURE ORANGE WINE,



 $\begin{array}{c|c} 0 \\ \hline 61 \end{array} \qquad \begin{array}{c|c} 0 \\ \hline 64 \end{array}$ 

AT LOWEST PRICES.

Special Terms to Large Buyers.

PURE GINGER WINE.

FOREIGN WINE AND SPIRIT MERCHANTS.

SOLE PROPRIETORS OF THE FAMOUS "GLENALLAN" PURE MALT WHISKY.

7 YEARS OLD. THE CREAM OF SCOTCH WHISKY. Perdox. 42/- Perdox.

73

## FRED! FINK &

10 & 11 MINCINA LANE, LONDON, E.G.

SPECIALITIES: Glycerine — Gum Arabic — Gum Tragacanth-Pure Beeswax-Honey.

#### GEORGE HAYNES & CO.

Hampstead Cotton Mills, Stockport,

MANUFACTURERS OF

## BLEACHED & ABSORBENT COTTON WOOLS

GREY WOOL, COLOURED WOOLS, & JEWELLERS' SHEETS.
THREE GOLD MEDALS, TWO SILVER MEDALS, AND DIPLOMA OF HONOUR,
The Highest Awards given to any Cotton Wool Manufacturers. Telegraphic Address\_"HAYNES STOCKPORT."

ESTABLISHED 1835.

ate charges, inclusive of materials.

DENTISTS, 2 Upper East Smithfle adjoining Royal Mint, London, The above is the only Address. FENTIMAN & CO...

#### ORANGE VVO O C P D

(VIN. AURANT., P.B.).

Specially brewed for Quinine Wine. Does not deposit, will keep good in any climate. In casks, 13 gailons to 140 gailons; small casks, 3s. 9d. per gailon, carriage allowed if pald within three months. In wine-bottles (not less than 3 doz.), at 9s. per dos. bottles included. Cesks and cases extra, and returnable.

Sample on application. Special quotations to large buyers.

DURRANT & CO., Railway St., HERTFORD.

### SILVERY WHITE GUTTA PERCHA ENAMEL" TOOTH STOPPING

degenene. Registered\_No. 2745.

P. A. STEVENS, Surgeon-Dentist, 72 MANSFIELD ROAD, N.W. SOLE PROPRIETOR AND MANUFACTURER.

special Terms to Wholesale Houses for Sheet or Sticks stamped with their own name. A sample box of 3d, sticks sent post free for 12 stamps. Price list and sample free,



## (n) Ph

Much Lighter and Finer than any other in the Market.

Prices and Samples on application to SOLE AGENTS...

Fletcher, Fletcher & Stevenson, 21 Mincing Lane, LONDON, E.O.

#### achei "MORSTADT"

Are the most digestible, flexible, and elegant in the market, and are fast replacing all competitors. The Cachete are made to hold from 3 to 18½ grains Quinine or Salicylio Acid.

MORSTADT " CACHET OLOSING APPARATUS, to easily and # speedily closs 12 Cachets at one operation, from 12/- to 30/-.

SMALL APPARATUS, to fill and close 1 Cachet at a time, from 2/8 to 8/8.

THOMAS CHRISTY & CO., 25 Lime Street, LONDON, E.C.

# K. YEMIAN, SMYRNA,

SCAMMONY, BALLS, BUM TRAGACANTH, MASTIC, ASPHALTUM, ETC. SOLE AGENTS FOR U.K.

R. HOPF & CO., 34 Gt. Tower St., LONDON, E.C.

### WHITEST & PUREST.

CHEAPEST SELLERS IN THE MARKET.

ALSO CHEMICALS, DRUGS AND OILS.

AUG. LEVERMORE & CO., 8, LIME STREET, LONDON, E.C.

TO LET.



#### E. H. THIELLAY'S (Registered 1867)

Supplied in Original Bottles ready for Patient's use (stamped), to retail at 4/8 each; also in 1-lb. Bottles for Dispensing, by the Sole Manufacturers :-

Fletcher, Fletcher & Stevenson. 21 Mincing Lane, London, E.C.

## JUNE'S HEALTH BATH SAI

A new refreshing and invigorating preparation which meets with a ready sale wherever introduced.

GOOD PROFIT GUARANTEED.

WRITE FOR SAMPLES & TERMS,

ANDERSON & CO., 165 FENCHURCH STREET, E.C.

HORNTON- PICKARD POST FREE

ARE THE TIME & Instantaneous

SIMPLEST & BEST.

LARGEST SALE IN THE WORLD

Time & Inst., from 18/6; Suap Shot, from 19/-; Focal
Plane, from 35/-

THE THORNTON-PICKARD M'F'G COMPANY ALTRINCHAM, NEAR MANCHESTER.



## NESS & COMPANY, DARLINGTON,

DIPS (Fiuld, Paste. DISINFECTANTS.

Highest Award World's Fair, Chicago, and Four Gold Medals.

WRITE FOR PARTICULARS AND SAMPLES.

#### CO. 82

CHEMNITZ, SAXONY,

Manufacturers of

ABSORBENT AND ANTISEPTIC COTTONS AND GAUZES.

General Agent for Great Britain and Ireland-

CLEMENT DIX, BIRMINCHAM, MIDLAND BUILDINGS.

# BETTS & CO., LIMITED

(ESTABLISHED IN 1840),

SOLE MAKERS IN GREAT BRITAIN OF

## METALLIC CAPSULES,

AND PATENTERS OF THE

COLOURED SIDE MARK, LABEL, AND OTHER SPECIALITY CAPSULES

(For the Prevention of Frand and Refilling of Old Labelled Bottles), as snpplied to Bass & Co., Hennessy and Martell Cognac, and the leading Brewers and Bottlers of Wines and Spirits throughout Europe.

## PLAIN ORDINARY CAPSULES.

For Small Phials, 2s. 6d. and npwards per 1,000, according to size, style, design, and quantity.

SPECIAL CONTRACTS FOR CONTINUOUS DEALING.

Manufacturers of Pure English-made Bottling and Package Tinfoil, from 1s. per tb. and upwards; Mixed Foil (Foreign Quality), from 6d. per lb. (according to gauge); Patent Barrel Packages and Snuff Canisters, Tea Packages, &c.

## COLLAPSIBLE TUBES AND SPRINKLERS

FOR PERFUMERS AND OTHERS.

MANUFACTORIES:—LONDON: Chief Office and Factories, Wharf Boad, City Boad, E.C.; and Holloway and Batavia Mills, Holloway, N.W.—BIRMINGHAM: Moor Green Fields.—PARIS: Office, 65 Rue Verrerie,—BORDEAUX: Office, 3 Quai de Chartrons; Factory, Monrépos, Floirac.

## PATENTEES OF HYDRAULIC & MECHANICAL PRESSURE CAPSULING MACHINES.

ESPECIALLY ADAPTED FOR CHEMISTS' COUNTERS.

Largely in use by the Trade, and efficiency guaranteed for all sizes of Bottles, at Boyalties from 5s. to £2 2s. per annum.

THE

# CHEMISTS'& DRUGGISTS' DIARY, 1895.

This work will shortly be in preparation, and from the nature of the Special Treatise and carefully=compiled Index which will be embodied in it we may predict that it will be as popular and useful as any of its predecessors.

For space and positions early application should be addressed to

The PUBLISHER, 42 Cannon Street, LONDON, E.C.

# NE & ASHWELL,

(Successors to HEADLAND & CO., the first-established Homocopathic Chemists in Great Britain),

74 NEW BOND STREET, LONDON, W.

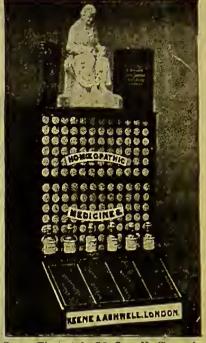
Cases made to THE LEADING HOUSE FOR Chemist's our design.

Cases from £3 3s. to £21.

MEDICINES BULK

> AND READY PUT UP FOR SALE.

> > 77



Case as Illustrated, £3.3s. No Charge for Case. Gives a profit of £7 13s. Dimensions  $25 \times 16\frac{1}{2}$  inches wide.

HOMEOPATHIC MEDICINES

Per Dozen.

THIS HANDSOME

PAY-DESK CASH CASE,

COMPLETE, with a stock of

36 doz. 1/- Medicines, at 3/6 per doz. = £6 6 0, SO THAT,

NO CHARGE IS MADE FOR THE CASE.

CAMPHOR PILULES, TINCTURE, AND ESSENCE.

Per Dozen.



# LEATH & ROSS'S Well-known Brand of HOMEOPATHIC MEDICINES.

IN CREAT DEMAND EVERYWHERE.

NO CHEMIST SHOULD BE WITHOUT THEM.

PARCELS ENCLOSED DAILY to any of the London Wholesale Houses to Save Carriage.

OUR

£5

Handsome and Attractive

CASE

(OPEN BACK OR FRONT)

This handsome Case stands unrivalled for style, convenience, and beauty, increasing the sales very considerably, and is fitted complete with Tinctures and Pilules (to customers' own selection if required) to the Net value of £5, thus yielding a handsome profit without trouble or inconvenience.

DIMENSIONS-

Length,  $19\frac{3}{4}$  in. Width (from back to front),  $11\frac{3}{4}$  in. Height,  $32\frac{1}{2}$  in.

## **NO CHARGE**

WHATEVER

FOR THE CASE.

A similar Case, with Desk at back,

Price £5 12s. 6d.

eactive

Compartic Medicines

OUR

# TINCTURES, PILULES.

AND

## CAMPHOR

Are in great demand everywhere, and can be had in any strength from the  $\phi$  (mother), 1x:1, and upwards.

Size



9d. size, 2/9,

6d size, 2/- ;,

A smaller Case can also be had of the same pattern.

DIMENSIONS-

Length,  $15\frac{1}{2}$  in. Width (from back to front),  $11\frac{3}{4}$  in. Height, 28 in.

Price £3 3s.

Other Agents' Cases, upright or flat, at £3 3s., £4 4s., £6 6s., £10 10s., and £21. All the Cases can be had in Mahogany, Walnut, or other Fanoy Wood to match Shop Fittings, and fitted with 6d. stock, 6d. and 1s. stock, 9d. and 1s. stock, or all 1s. stock, as preferred.

## OPINIONS OF THE TRADE

ON OUR HANDSOME COUNTER SHOW-CASES.

J. W. B. S. says:—"I am delighted with the splendid Case. It is a very good addition to my counter, and I hope you will find many customers for such an exceedingly good and excellent supply of Homeopathic Medicines."

T. H. writes:—"Many thanks for Case, which arrived safe. I like it very much, and it certainly gives a handsome appearance to my counter."

LEATH & ROSS, Wholesale and Export Homeopathic Chemists, 9 VERE ST., OXFORD ST., W. (WHOLESALE) I ONLY

And JEWRY HOUSE, OLD JEWRY, E.C.

(REMOVED FROM 5 ST. PAUL'S CHURCHYARD).

LONDON

"CONCILIO ET LABORE."

## THE MANCHESTER COLLEGE PHARMACY.

Directors { Mr. W. SPENCER TURNER. Mr. CHARLES TURNER, F.C.S.

If you want to know the meaning of the phrase,

THOROUGHNESS AND SUCCESS"

IN PHARMACEUTICAL EDUCATION,

Write for a prospectus of the M.C.P., Ask a student of the M.C.P., Join a class in the M.C.P.

SEPTEMBER 3rd.

OF PHARMACY. 100 BURLINGTON STREET, MANCHESTER.

> Principal-Mr. GEO. CLAYTON, Ph.C., F.O.S., Assisted by Mr. F. LAWSON, PH.O.

At the Examination held last month the following 16 geutlemen passed from the NORTHERN:—

MINOR.

Mr. Arundel, Manchester.
Barker. Mold.
Dent, Manchester.

Greenhalgh, Bolton.
Hirst. Colpe.
Keineh, Bolton.
Mitchell, Hyde.
Napper, Manchester.

OR.

Mr. Openshaw, Blackburn.

Priestly, Bradford.

Rothwell, Stratford-on-Avon.

Rook, Maryport.

Sonley, Littleborough.

Stoddard, Manchester.

Stnttard, Burnley.

Young, Manchester.

The success of the tutorial system is again demonstrated by the above results, only four gentlemen from the "Northern School" failing in the Viva-Voce. "The Next Session comme" ces on August 22.

## THE METROPOLITAN COLLEGE

OF PHARMACY.

Principal-W. WATSON WILL, F.C.S.

The next complete Course of Lectures for the Major and Minor Examinations will commeuce on Monday, September 3, terminating on December 29, for Day and Evening Olasses.

Education Thorough and Practical, no Cram System or Notes Method

being employed.

Entrics for September 3 are now being made.

Fees: - Major Course, 6 Guineas; Minor Course, 10 Guineas.

Absolutely inclusive. No extras of any kind.

A Tutorial Class for October Examination will commence on September 3.

JULY PASS LIST.
MAJOR—5 presented, 5 passed, 4 at first attempt.
MINOR—8 psssed, 5 at first attempt.

FOR NEW PROSPECTUS & FULL PARTICULARS APPLY TO

WALTER S. CARVER, Secretary,

162 KENNINGTON PARK ROAD, LONDON

NOW READY, SECOND EDITION, OROWN 8vo, PRICE 5.

A PRACTICAL MANUAL OF

## VENEREAL & GENERATIVE DISEASES;

Instituting SPERMATORRHŒA, PROSTATORRHŒA, IMPOTENOE, and STERILITY in both Sexes.

By M. K. HARGREAVES, M.D.

Assistant Physician to St. John's Hospital for Diseases of the Skin.

LONDON: R. KIMPTON, 128 WARDOUR STREET, LONDON, W.C.

ONDON HOM COPATHIC HOSPITAL AND MEDICAL SCHOOL, GREAT ORMOND STREET, BLOOMSBURY, W.O.

Contains 90 beds, and, being entirely supported by Voluntary Contributions. Donations and Annual Subscriptions are earnestly solicited. The Hospital is always open to the inspection of visitors, and Clinical Instruction is given in the Wards and Ont-patient Department to Medical Students and Practitioners. It possesses a valuable Library of Homosopathic Publications, which Medical Mon are invited to study. They are also invited to visit the Dispensity. The In-patients number over 700 annually; the Out-patients nearly 9,000 annually. The number of Patients treated since the insquration in 1849 exceeds 218,000, thas a staff of 42 Nurses for Ward Nursing and Nursing Invalids at theorems.

G. A. CROSS, Secretary-Superintendent,

## LIVERPOOL SCHO PHARMACY,

6 Sandon Terrace, Upper Duke Street, Liverpool, LATE OF 24 NEWINGTON.

Principal—R. C. COWLEY, Ph.Ch.,

Analytical and Consulting Chemist.

#### NOTICE-Change of Address.

On account of the steady increase in number of Students, it has been found absolutely necessary to provide increased accommodation.

The New Premises have been pronounced by the Leading Pharmacists in Liverpool and district to be in every way suitable for the purpose. The rooms are lofty, well ventilated, and have the advantage of absolute explored senitation. quietnde and perfect sanitation.

At the July Examination the following gentlemen satisfied the Examiners:-

MAJOR .- F. N. MERCER, Farnworth,

MINOR.

Mr. J. W. Allen, Douglas.
J. B. Beckwith, Liverpool.
J. W. Burgess, Wigan.

A. OLAY. Leeds. ,, D. E. LEWE, Oardigan. Mr. L. Parry, Liverpool.

"J. F. Richardson, Liverpool.

"S. C. Rowland, Wrexham.

"E. T. Sanley, Littleborough

"J. M. Symington, Maryport.

The New Syllabus, with full particulars, may be had on application to the Principal.

The Next Course commences the 2nd Monday in September.

PRELIMINARY STUDENTS TAKEN BY MR. PENDLEBURY.

A class for the October Examination will commence Monday, September 3rd.

MANCHESTER.

### PHARMACEUTICAL DEPARTMENT.

The Prospectus of the Pharmacentical Olasses is now ready. The curriculum for Students qualifying for the Minor and Major Examinations of the Pharmaccutical Society includes:—

CHEMISTRY. BOTANY. PHARMACOGNOSY. PHARMACY. PHARMACY LAW.

An Entrance Exhibition of £10 (subjects—Elementary Ohemistry and Elementary Botany), and two prizes of £10 and £5 are offered for competition annually. The Session commences October 1st.

For all particulars apply to

H. W. HOLDER, M.A., Registrar.

#### NOW READY.

Sixteenth Edition, much Enlarged. Price 12s. 6d.

## COMPANION BRITISH PHARMACOPŒIA.

London: J. & A. CHURCHILL, 11 New Burlington Street, W.

Now ready, Paper Cover, 6d.; Cloth, interleaved, 1s.

## B.P.C." UNOFFICIAL FORMULARY, 1894,

Prepared by the Formulary Committee of the British Pharmaceutical Conference.

London: J. & A. CHURCHILL, 11 New Burlington Street.

## TIS TRUE

That LARGE CONSUMERS can be supplied with well designed and well printed SHOW CARDS, WRAPPERS, LABELS, LEAFLETS, HAND-BILLS, and every kind of PLAIN & COLORED PRINTING at Low Prices.

Estimates Free.

Correspondence Invited.

## TAYLOR BROS., Leeds

## S. HILDESHEIMER & CO., LTD.

14/16 Silk St., LONDON, E.C., & 63 Miller St., MANCHESTER. OUR COLLECTION OF

### CALENDARS, 1895,

Is now READY, containing many High-class and Artistic Novelties.

SPECIAL LINE:

CALENDARS IN BLACK AND WHITE, WITH ROUCH EDGES.

POCKETS, PERPETUAL CALENDARS, BLOCK CALENDARS, SHAPE CALENDARS, MONTHLY TEAR-OFFS, POCKET CALENDARS.

Large Variety of Showcards and Advertising Novelties.

ARTISTIC CHROMO PRINTING FOR ALL TRADE PURPOSES. Samples and Prices will be forwarded on application.

If you are looking for a useful article for Christmas distribution, or as a permanent advertising medium, the most effective

## CALENDARS, DATE STANDS & NOVELTIES

FOR THIS PURPOSE ARE THOSE

Manufactured by JAMES SPELLER & CO.

NEW PATTERNS FOR 1895 ARE NOW READY.

ILLUSTRATED LIST SENT ON APPLICATION TO

## JAMES SPELLER &

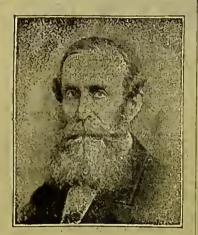
Wholesale and Export Manufacturing Stationers and Original Makers of all kinds of Advertising Goods,

Charterhouse Stationery Works, GOLDEN LANE, LONDON, E.C.









## THE ONLY SELF-CLOSING TIL

Having had 14 years' experience selling Check Tills, I have avoided existing defects and adopted improvements for speed and security which make my Patent SELF-CLOSING Till the best in the market, as proved by the testimony of hundreds of business men using them.

#### SEE EXTRACTS OF LETTERS FROM LEADING CHEMISTS:-

"I have compared it against the other competing Tills, and prefer yours."

"They ensure accurate balancing of cash at the close of each day."

THOMPSON & CAPPER, Liverpool. "Am very pleased with Till; it is all you claim for it."—W. G. BLACKHAM, Holloway, N. "Please send another Till."—C. W. BRUMWELL, Notting Hill, W. "No more trouble than an ordinary open Till."—H. J. SMITH, Silloth.

## O'BRIEN'S PATENT SELF-CLOSING CHECK TILL

Is the Best and Quickest in Use.

Price £3 net Cash, or £3 10s, three months.

Solid Mahogany, size 18 by 10 by 7.

#### INVALUABLE TO CHEMISTS.

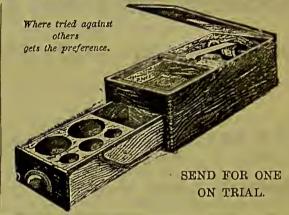
Hundreds of Testimonials and Repeat Orders.

In use in over 400 Towns in the United Kingdom.

14 DAYS' TRIAL BEFORE PURCHASE.

## THOMAS O'BRIEN,

Fern Grove, Lodge Lane, LIVERPOOL.





HAS BROUGHT HARRISON'S

## XYLONITE EYE CAPS READING SHADES

up to date. For lightness, cheapness and usefulness they are simply perfect. Celluloid in imitation of watered silk, Aluminium Head Clips and Covered Silk Bands, &c.

Every up-to-date Chemist should keep them on his counter. They are outside the range of imitation and competition.
Side by side with any other Shade for protecting the eyes comparison would be odious. Of all Chemists and Opticians and of the maker

T. H. HARRISON, 40 Hatton Garden, LONDON, E.C.

## ADVERTISING BALLOON CO.

ALTRINCHAM, ENGLAND.

Advertising Balloons, printed with name, trade, and address, from 12/- per gross; each Balloon fitted with the improved long nozzle, so that a child can blow them ont. We put name, &c., one side, and any figure the other. As a testimony to the quality of our manufactures, the largest advertising firms in the world have adopted our goods in preference to foreign-made articles. Makers of all kinds of Pessaries, Skins, Sheet Rubber Surgical Appliances, &c., &c. Special terms for Shipping and the Wholesale.

Notice.—To prevent disappointment, no notice will be taken of application for wholesale terms unless accompanied with bond-fide manufacturer's references.

Sample Rooms-9 Newton St., PICCADILLY, MANCHESTER.

All our own manufactured goods bear the above Trade Mark-3 Balloons.

ESTABLISHED HALF A CENTURY.

## STEO. IN

CHEMISTS' SHOP FITTERS.

PLANS AND ESTIMATES SUPPLIED FREE OF CHARGE.

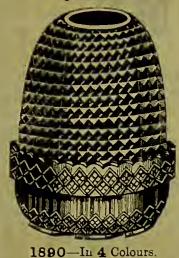
AND 59 61 RHODES STREET, HOLLOWAY, LONDON,

## THE QUEEN OF EFFERVESCING SALINES.

In 1/- and 2/- Bottles, is now made up only in GREEN and YELLOW WRAPPERS, and is being widely advertised. SALT REGAL made up in the old FRITZ SALT REGAL Wrapper is NO LONGER RECOGNISED by the Proprietors, who are open to exchange old goods for NEW at Equal Value. Communicate with Manager,

REGAL, LIMITED, ISLINGTON, LIVERPOOL. CAUTION .- See you get the GREEN and YELLOW WRAPPER.

Equal to Cut.

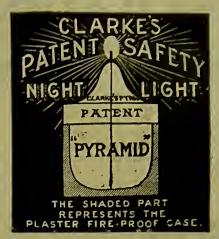


CRICKLEWOOD STATION, MIDLAND RAILWAY.

Telegrams—
"PYRAMID LONDON."

COLLINS STREET, MELBOURNE.

CRICKLEWOOD,
LONDON, N.W.



## Special Notice—To the Trade Only.

DEAR SIR,

Each Lamp packed in a separate box.

Four "Pyramid" Lamps, No. 1890 Pattern, will, without charge, be packed with every dozen boxes of "Pyramid" Night Lights, both 6 and 9 hours, during the month of "SEPTEMBER." The Lamps will be in separate boxes, and 2 enclosed in each packet of "Pyramids."

The value of the Lamps will be Retail 4d. each.

Two "Fairy" Lamps (without charge) will be enclosed with every dozen boxes of "Fairy" Lights. The value of the Lamps will be Retail 1s. each.

We are,
Respectfully,

CLARKE'S "PYRAMID" AND "FAIRY" LIGHT COMPANY, LIMITED.

N.B.—To enable us to deliver goods in **September**, the Trade are advised to book their orders **early**. We cannot guarantee the execution of orders to **include Lamps**, received after the 15th of **September**.

## EXCHANGE COLUMN.

This Section of "The Chemist and Druggist" must be closed for press by Wednesday merning's post of each week. Remittances payable to EDWARD HALSE.

#### TERMS.

Advertisements in this department must be paid for in advance. From this rule no deviation can be made. Insertions are charged at the rate of \$\frac{1}{4}\text{d}\$, per word, provided the advertiser attaches his name and address, for each word of which he must also pay at the same rate; or if he pays \$1\text{d}\$, per word his name and address will be registered and a figure attached to his advertisement. All correspondence referring to that figure must be addressed to "The Publisher of The Chemist and Druggist, 42 Cannon Street, E.O.," and the figure must be distinctly endorsed upon the envelope. Letters will then be forwarded to their proper destination. A price is counted as one word—as, e.g., £1 10s. 6d.

**DEPOSIT OF MONEY.**—In order to ensure safety we offer the following system:—The purchaser of anything advertised in the Exchange Column may remit the amount to us, accompanied by a commission of 6d. if the amount is £3 or under; and 1s. if over that sum. We acknowledge receipt of deposit to both parties, and hold the money until we are satisfied that either the goods are returned to their original owner or the purchase is completed.

Postal orders and cheques sent as deposit must be made payable to Edward Halse, and crossed "Martin's Bank Limited)."

#### FOR DISPOSAL.

#### Formulæ.

Quinine hair-wash.—A good and efficacious preparation; costs about 2s. per gallon to make; copy, 1s. Uren, 4 Greyhound Road, Fulham, London.

#### Shop Fittings.

Sponge-case, mahogany and plate-glass, with marble top; price 51. 5s. Philip Josephs, 54 Old Street, Goswell Road, London, E.C.

Tooth-brush case, bent plate-glass and glass shelves, 35s.; swan-necked carboy, large, 60s. Philip Josephs, 54 Old Street, Goswell Road. London, E.O.

Entire fittings and uteusils of a chemist's shop for 251., or divided ad valorem, consisting of drawers, shelving, wall-case, shop-rounds, counters, chairs, pill-machine, carboys, mortars, measures, window-fittings, &c. Natali, 40 Gray's Inn Road, Holborn, Londou. Chemist's drug-drawers, two nests, 6 ft. by 2 ft., 30 drawers each; one 4 ft. by 2 ft., 20 drawers, mahogany fronts, glass knobs, glass labels, well made; cheap. Govier, 106A Shrubland Grove, Dalston, Loudon, N.E.

Chemist's mahogany dispensing-case, 4 ft., with written tablet on top, 42s. 6d., bargain; 5-ft. mahogany bent plate-glass counter-case, mirror hack, display-shelves, serving-tray, 75s., equal to new; mahogany upright case, plate-glass door, mirror back, shelves, and mahogany desk at back, 45s. 6d. Mills, 203 City Road, London, E.C.

Chemist's shop-fittings, comprising range of drawers with glass labels, shelves, and cornice, complete; glass-fronted counters, dispensing-screen, mirror centre; glass wall and counter cases, shop-rounds, cintmentjars, and every requisite for immediate use; for sale, together or separate; great bargains. Philip Josephs, 54 Old Street, Goswell Road, London, E.C.

#### Literature.

Chemist and Druggist, for 1887-8-9-90-(91 complete) 92, and 93; cleven numbers wanted to complete the seven years' issue; what offers?

Enoch Palmer & Son, 31 Cleethorpe Road, Grimsby.

#### Miscellaneous.

Three cwt. fine gum thus; machine for mixing lime oream; Field's cattle-oils; Dobsou's hlack drinks. 26 High Street, Middleton, Lancs.

#### WANTED.

A small rotary pill-machine, also a piping-press.

Description and prices to Clark, 13 Bradford

Street, Attercliffe, Sheffield.

Incc's "Latin Grammar," "Art of Dispensing," Wills' "Pharmacy," Wills' "Materia Medica"; good condition. D., 76 English Street, Carlisle.

# OLIVE OIL.

ALL QUALITIES GUARANTEED GENUINE ..

J. H. BROWNING & CO., 27 BARTHOLOMEW CLOSE, E.C.

PHILIP JOSEPHS, OLD ST., GOSWELL RD., LONDON, E.C.

Has always in Stock a large assortment of Second-hand and New Drawers, Counters, Dispensing Screens, Glass Wall and Counter Cases, and every requisite for Fitting-up a Shop within 24 hours at prices less than any other house.

Inspection invited.

CLOSED ON SATURDAYS.

INDEX TO ADVERTISEMENTS,

Pages 23 to 25.

# THE "FLY CEMETERY"

BY ROYAL" LETTERS PATENT.

NON-POISONOUS.

The ORIGINAL and by far the BEST Sticky Fly Paper in the Market.

# ANNUAL SALE MILLIONS

Catches more

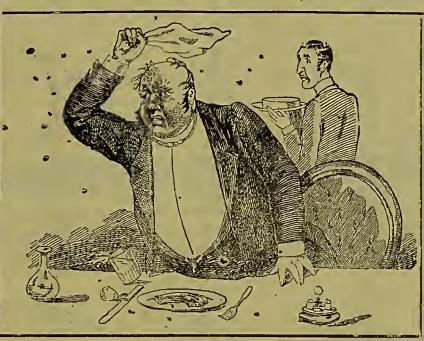
Flies in a day

than the

old-fashioned

Papers do in a

week.



Well known in every Household in the Kingdom.

Bears Large Profits.

## PRICE ONE PENNY.



The immense popularity of the "FLY CEMETERY" with the public has had the usual result attending the introduction and prosperity of all genuine articles in raising up a host of *imitations*, which for the most part disappoint the purchaser. We therefore warn our friends not to be misled by specious announcements, but when they order Sticky Fly Papers to insist upon having the "FLY CEMETERY."

SOLD BY ALL THE LEADING WHOLESALE HOUSES.

LIBERAL TERMS.

SAMPLES AND TESTIMONIALS FROM

## TUNBRIDGE & WRIGHT,

MANUFACTURERS, READING.

NORTH OF ENGLAND DEPOT— 4 GALLOWGATE, NEWCASTLE-ON-TYNE.

TELEGRAMS— .
"FLIES READING."

CLEAN TO USE, THE

EACH.

DOES NOT SPOIL BY KEEPING.

REEL COMFORT. ONLY

MARSHALL'S

IS NOT OFFENSIVE TO THE SIGHT.

Catches more Flies than Sticky Papers.

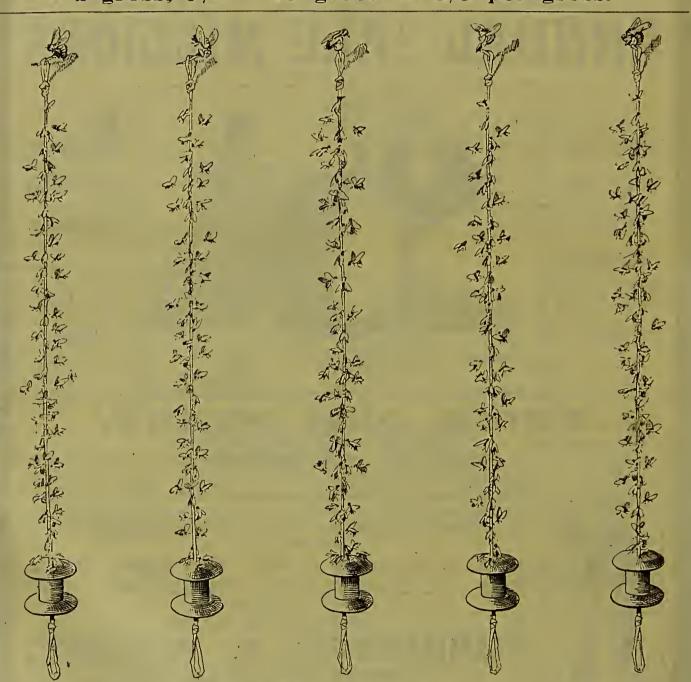
Can be carried in the Pocket.

EACH.

GOOD IN ANY CLIMATE. Specially suitable for Export.

1 gross, 7/-.

10 gross at 6/6 per gross.



LONDON. BARCLAY & SONS. NEWBERY, F., & SONS. SANGER, J., & SONS.

EVANS, GADD. & CO.

WOOLLEY, J., & CO.

WHOLESALE AGENTS. NORWICH. SMITH & SONS.

RAIMES & CO.

AFRICA LENNON, G. B., & CO. AUSTRALIA.
FELTON, GRIMWADE & CO.

#### TRAP. DEADLY FLY

Sole Proprietor and Manufacturer of the largest and best make of any known STICKY FLY PAPER in the World, 1d. and 1d. sizes.

These papers are now being Manufactured and Prepared by an entirely new process with Machinery invented by the proprietor, who is thus enabled to execute all orders in large or small quantities with quickness and despatch. So order at once, and do not be put off with inferior makes. Remember delay is dangerous.

By Royal Letters Patent.

Patent No. 5985.

These papers, the only kind Folded and Sealed by Machinery that do not exude, and opened with ease by a child, keep good in any climate.

WHOLESALE BUYERS & SHIPPERS SHOULD WRITE AT ONCE FOR SAMPLES & TERMS POST FREE.

Address: THE EXOR. OF W. SLACK. OFFICES: 53 ST. SEPULCHRE GATE.

WORKS: WEST LAITH GATE, DONCASTER, ENGLAND.

TELEGRAMS: "TRAPS DONCASTER."

Telephone communication between Offices and Works.

SOLE LONDON AGENTS: TIDMAN & SON, BUSHELL STREET, E.

SOLE SCOTCH DEPOT: 5 OSWALD STREET, GLASGOW. G. B. LIVINGSTONE, MANAGER.

DEADLY CO CON FLY MRAP.

## HE PERFUMED STICKY FLY E

The BEST and MOST ATTRACTIVE FLY PAPER in the MARKET. NO LEAKY EDGES. NEVER BECOME DRY.

PENNY EACH.

(Patented). Most Alluring and very Sticky. Raspberry, Strawberry, &c. 6d., 1/-, & 2/6 Tins.

Of the Leading Wholesale Houses, and from the Inventor and Manufacturer,

CHEMIST, BUCHAN.

FRIOCKHEIM.

N.B.

Sole Export Agents-BURGOYNÉ, BURBIDGES & CO., 16 Coleman Street, London, E.C.

It is interesting to note the process of evolution in Sticky Fly Papers. First those spread on Newspaper, next the common folded varieties, and lastly the bordered paper-THE GRIP the only one of its kind in the market. It has no folded edges, the gum cannot exude, being hermetically sealed by a surrounding filament (protected in England by 3 patents).

I shall be pleased to forward samples of this year's improved manufacture, and would ask you to compare THE GRIP with other makes, both as regards the appearance and tenacity or grip of the special gum I use.

These papers are held in stock by the leading wholesale houses.

Patentee and Sole Manufacturer — CHRISTY STRONG, READING.

HOME A OMFORT



x

#### AND HOME CHEMISTS-IMPORTANT! COLONIAL

Up country and other Chemists can find no more certain selling or satisfactory extra to introduce to their

Which are specially Manufactured for Domestic use, each celour being combined with its most suitable Mordant, and thus ensuring success and continued patronage from all who use them.

AN ASSORTMENT AT ONCE FROM YOUR WHOLESALE

All Colours, 1d., 3d., and 6d. each.

SOLE MANUFACTURERS-

E. CRAWSHAW & CO., 80 FANN ST. ALDERSGATE ST., LONDON, E.C.

Chemists in Dairy Farming Districts should sell Bunsen's Butter Colouring, 6d., 1/-. 2/6.

#### CHEMISTS SHOULD SAVE MONEY

By procuring THE BEST

## SHEEP

## FLUID, POWDER, and PASTE, And DISINFECTANTS

IN THE MARKET.

Used by her Majesty's Government, and authorised by the Cape Government for cure of Scab.

Send for Samples and Prices to

### FLETCHER BROS. & CO., GRIMSBY.

SPECIAL TERMS TO LARGE BUYERS.

Stand 74, Royal Show, Cambridge, June, 1894.

OINTMENT.

CURRENT  $1/1\frac{1}{2}$  size, 9/6 per dozen. PRICES | 2/9 ,, 28/6

Terms Cash, less 21% for 1 Gross lots, and 5% for 5 Gross and upwards. No less quantity than 3 doz. supplied. When Cheque accompanies the Order, Carriage will be Paid.

HI. CO. 21 HAMILTON SQUARE, BIRKENHEAD.

See Summer Issue of THE CHEMIST AND DRUGGIST, p. 32.

Chemists may fight Stores and Cutters and increase business if they make their Proprietaries from TOM BROOKS' VALUABLE, RELIABLE, and PRACTICAL FORMULÆ. Following Six, post free, 5s., with full instructions, will be found useful for coming season, and are a fair sample:-

TIC SPECIFIC, cures Neuralgia when all other remedies fail.

GLYCERINE CREAM, an elegant toilet adjunct for Summer and Winter.

MIST. OCCASIONAL (for Ladies), quite safe and seldom disappoints.

CARBOLIC FOAM, a liquid saponaccons dentifrice, very pleasant, cleansing, and purifying; cheaply produced.

EMBROCATIO. ALB., creamy, inseparable, and cheap; warranted the best in market, and will be preferred to any advertised.

CHEROKEE SAUCE, mellow, piquant, appetising; a better sauce

Detailed Lists of 400 Recipes and particulars of Specials and Job Lines post free.

Have you seen my "Sweet Solid Perfumes," "Sanoscent" Moth Killer, and "Floral Tablets"? If not, it would pay you. Retail, 2d. cach; price 1/- per dozen; sample 2 dozen, carriage paid, for 1/9.

A New Linc. 3d. box of "Hairclean" makes half-a-pint of strong Nursery Lotion. Sure to sell, and pays well. 20/- gross; 1 dozen as sample sent free for 1/9.

May be had of BARCLAYS, SANGER, EVANS, LESCHER & CO

BROOKS, Chemist. TOM HORNSEY, LONDON, N.

# III AR &

(VINUM AURANTII, B.P.), prepared in strict accordance with the Formula of the British Pharmacopæia.

## JJ AUTOMATICECHECK

G. H. GLEDHILL

PATENTERS AND MANUFACTURERS TRINITY WORKS, HALIFAX, ENGLAND.

#### CLEANING PLATE! For

BRADLEY & BOURDAS'S ALBATUM or WHITE ROUGE,

For OLEANING GOLD, SILVER, and PLATED GOODS. A trial is only needed to prove its superiority over other Plate Pewders in use. Chemists will find it to their advantage to recommend this Pewder, as when it is once tried it is always continued to be used.

Sold in Boxes at 1s. and 2s.; Tins, 6s.

6 PONT ST., BELGRAVE SQ., & 48 BELGRAVE RD., LONDOW, S.W.

# DRUGGISTS' CONFECTIONERY.

MESSRS.

# ROBERT GIBSON & SONS,

CARLTON WORKS, MANCHESTER,

And No. 1 GLASSHOUSE YARD, ALDERSGATE ST., LONDON,

Have now completed their EXTENSIVE ALTERATIONS, New Machinery and the most modern Appliances making their works the most complete of the kind in the Kingdom.

### GIBSON'S

SUPERIOR

### BOILED

## SUGARS

Have gained a high reputation everywhere. FOR EXPORT TRADE. They are put up in 1-lb., 2-lb., and 5-lb. Bottles. Packed in Casks or in 1-doz. Cases as required, and delivered F.O.B. at any Port in England. These Sweets are absolutely pure. We specially recommend

Lime Fruit Tablets, Everton Toffy, Mixed Fruit Drops, Cough Drops, Raspberry Drops, Lemon Tablets.

### COMPRESSED

PELLETS.

ALL KINDS IN ANY QUANTITIES.

## CHLORATE OF POTASH PELLETS

IN 1-CWT. ORIGINAL BARRELS. BARRELS FREE.

## HIGH-CLASS LOZENGES

OF EVERY DESCRIPTION.

THROAT HOSPITAL LOZENGES, COUGH LOZENGES, VOICE LOZENGES, TOP-NOTE PRODUCERS, &c., &c.

Indents from abroad, marked "GIBSON," may be sent to any Wholesale Drug or Shipping

House in the Kingdom. [2]

Price Lists sent on application to

ROBERT GIBSON & SONS, Carlton Works, MANCHESTER.



### COLONIAL AND HOME CHEMISTS-IMPORTANT!

Up country and other Chemists can find no more certain selling or satisfactory extra to introduce to their Customers than

Which are specially Manufactured for Domestic use, each colour being combined with its most suitable Mordant, and thus ensuring success and continued patronage from all who use them.

ORDER AN ASSORTMENT AT ONCE FROM YOUR WHOLESALE HOUSE. All Colours, 1d., 3d., and 6d. each.

SOLE MANUFACTURERS-

E. CRAWSHAW & CO., 80 FANN ST. ALDERSGATE ST., LONDON, E.C.

Chemists In Dairy Farming Districts should sell Bunsen's Butter Colouring, 6d., 1/-. 2/6.

### CHEMISTS SHOULD SAVE MONEY

By procuring THE BEST

FLUID, POWDER, and PASTE,

And DISINFECTANTS IN THE MARKET.

Used by her Majesty's Government, and authorised by the Cape Government for cure of Scab.

Send for Samples and Prices to

### FLETCHER BROS. & CO., GRIMSBY.

SPECIAL TERMS TO LARGE BUYERS.

Stand 74, Royal Show, Cambridge, June, 1894.

OINTMENT.

**CURRENT**  $(1/1\frac{1}{2})$  size, 9/6 per dozen. PRICES | 2/9 ,, 28/6

Terms Cash, less 21% for 1 Gross lots, and 5% for 5 Gross and upwards. No less quantity than 3 doz, supplied. When Cheque accompanies the Order, Carriage will be Paid.

> H. EI. CO.

21 HAMILTON SQUARE, BIRKENHEAD.

See Summer Issue of THE CHEMIST AND DRUGGIST, p. 32.

Chemists may fight Stores and Cutters and increase business if they make their Proprietaries from TOM BROOKS' VALUABLE, RELIABLE, and PRACTICAL FORMULÆ. Following Six, post free, 5s., with full instructions, will be found useful for coming season, and are a fair sample:-

TIC SPECIFIC, eures Neuralgia when all other remedies fail.

GLYCERINE CREAM, an elegant toilet adjunct for Summer aud

MIST. OCCASIONAL (for Ladies), quite safe and seldom disappoints.

CARBOLIC FOAM, a liquid saponaecous dentifrice, very pleasant, cleansing, and purifying; cheaply produced.

EMBROCATIO. ALB., creamy, inseparable, and cheap; warranted the best in market, and will be preferred to any advertised.

CHEROKEE SAUCE, mellow, piquant, appetising; a better sauce

Detailed Lists of 400 Recipes and particulars of Specials and Job Lines post free.

Have you seen my "Sweet Solid Perfumes," "Sanoscent" Moth Killer, and "Floral Tablets"? If not, it would pay yon. Retail, 2d. cach; priec 1/- per dozen; sample 2 dozen, earriage paid, for 1/9.

A New Linc. 3d. box of "Hairclean" makes half-a-pint of strong Nurscry Lotion. Sure to sell, and pays well. 20/- gross; 1 dozen as sample sent free for 1/9.

May be had of BARCLAYS, SANGER, EVANS, LESCHER & CO

BROOKS. Chemist, TOM HORNSEY, LONDON, N.

# MILLAR & CO. DUBLIN

(VINUM AURANTII, B.P.), prepared in strict accordance with the Formula of the British Pharmacopæia.

## JJ AUTOMATICICHECK

G. H. GLEDHILL

PATENTERS AND MANUFACTURERS. TRINITY WORKS, HALIFAX, ENGLAND.

For CLEANING PLATE!

BRADLEY & BOURDAS'S

ALBATUM or WHITE ROUGE, For CLEANING GOLD, SILVER, and PLATED GOODS.

A trial is only needed to prove its superiority over other Plate Pewders in use. Ohemists will find it to their advantage to recommend this Pewder, as when it is once tried it is always continued to be used.

Sold in Boxes at 1s. and 2s.; Tins, 6s.

6 PONT ST., BELGRAVE SQ., & 48 BELGRAVE RD., LONCOR, S.W.

# DRUGGISTS' CONFECTIONERY.

MESSRS.

# ROBERT GIBSON & SONS,

CARLTON WORKS, MANCHESTER,

And No. 1 GLASSHOUSE YARD, ALDERSGATE ST., LONDON,

Have now completed their EXTENSIVE ALTERATIONS, New Machinery and the most modern Appliances making their works the most complete of the kind in the Kingdom.

### GIBSON'S

### SUPERIOR

### BOILED

## SUGARS

Have gained a high reputation everywhere. FOR EXPORT TRADE. They are put up in 1-lb., 2-lb., and 5-lb. Bottles. Packed in Casks or in 1-doz. Cases as required, and delivered F.O.B. at any Port in England. These Sweets are absolutely pure. We specially recommend

Lime Fruit Tablets, Everton Toffy, Mixed Fruit Drops, Cough Drops, Raspberry Drops, Lemon Tablets.

### COMPRESSED PELLETS

ALL KINDS IN ANY QUANTITIES.

## CHLORATE OF POTASH PELLETS

IN 1-CWT. ORIGINAL BARRELS. BARRELS FREE.

# HIGH-CLASS LOZENGES

OF EVERY DESCRIPTION.

THROAT HOSPITAL LOZENGES, COUGH LOZENGES, VOICE LOZENGES, TOP-NOTE PRODUCERS, &c., &c.

Indents from abroad, marked "GIBSON," may be sent to any Wholesale Drug or Shipping

House in the Kingdom. [2]

Price Lists sent on application to

ROBERT GIBSON & SONS, Carlton Works, MANCHESTER.



## DON'T BUY IMITATIONS.

MAKES THE FINEST BEVERAGE IN THE WORLD.

All the London Houses Stock our Goods.

INVENTORS AND MANUFACTURERS-

NEWBALL & MASON, Hyson Green Works, NOTTINGHAM.

# PRINCE ALBERT'S CACHOUX



HIGHEST AWARD CHICAGO EXHIBITION 1803.



These Cachoux are supplied only No. 4's at 3/6 doz. (Export). are three sizes.

in Brass Boxes, of which there \ No. 5's at 4/- doz. (Home Trade). No. 6's at 7/- doz. (Export).

All Labels, Titles, and Trade Marks registered in the United States, Canada, &c.

Manufactured by

THOMAS JACKSON, Strangeways, MANCHESTER.

# POTTER'S

The Best in the Market.

HERB BEER

Makes a Splendid Botanic Beer.

IMPROVED FLAVOUR.

EXTRACT

KEEPS GOOD IN ANY CLIMATE.

Price 3/6 per Dozen, 39/- per Gross.

Show Cards, Counter Bills, &c., with all orders.

POTTER & CLARKE,

Wholesale and Botanic Druggists,

5, 6, & 7 RAVEN ROW, LONDON, E.

# SYPHONS SELTZOGE





PRICES.

SYPHONS ... 1/6 1/8 and 1/10 each.

SELTZOGENES.

16/- each. 6/-6/8 8/6 10/5 7/6 Including two funnels and stopper for charging. The tops of these Seltzogenes are made of pure block tin, guaranteed



LIST OF

AND

## ESSENCES.

EXTRACT OF **HERBS** 

11

- DANDELION
  - SARSAPARILLA
- 11 HOPS
- GINGER GINGER ALE

LEMONINE CIDERINE

HOREHOUNDINE

FOAMINE .

WINTER EXTRACT

### Mason's Wine Essences.

GINGER RASPBERRY COWSLIP STRAWBERRY ORANGE BLACK CURRANT RED CURRANT LEMON LIME FRUIT JARGONELLE PINE APPLE

SARSAPARILLA LEMON SQUASH CHERRY PEPPERMINT PORT 8HERRY CLOVES ELDERBERRY DAMSON RAISIN GOOSEBERRY "WARMINE"

BOLE INVENTORS AND MANUFACTURERS-

### NEWBALL MASON

Manufacturing Chemists.

HYSON CREEN WORKS, NOTTINGHAM,



Chemists are requested to write for Show Tablets, Trade Terms, and Special Plan of Introduction in country and town, to the Sole Consignees-HERTZ & COLLINGWOOD, 4 Sussex Place, London, E.C.

# ROYAL SELTERS NATURAL TABLE WATER

ROYAL PRUSSIAN



MINERAL SPRINGS.

WE hereby beg to announce to the public that we have leased the whole management of the Royal Mireral Springs, at NIEDERSELTERS and FACHINGEN, to Mr. FREDERICK SIEMENS, in Dresden, from the 1st April of the current year onwards. The tenant is bound, according to the Deed of Contract concluded by him, to undertake the bottling as heretofore directly from the natural sources

WITHOUT ANY **addition** THERETO OR **deviation** THEREFROM WHATSOEVER. WIESBADEN, the 9th February, 1894.

STATE OFFICE-Department for direct Taxes, Domaine and Forests v. Tepper-Laski v. Aweyden.

### ROYAL SELTERS TABLE NATURAL

Bottled under the supervision of the Prussian Government.

### MINERAL SPRINGS. ROYAL

NIEDERSELTERS.

Notwithstanding repeated advertisements and statements not always strictly accurate, no water has succeeded in displacing that of the ROYAL MINERAL SPRINGS, at NIEDERSELTERS (Seltzer Water), from its position as a

NATURAL TABLE WATER,
or in lessening its reputation with the medical profession, or with the public at large. Professors Tichborne and Jarres,
authors of the well-known work, "The Mineral Waters of Europe," declare it to be the most celebrated Mineral Water in
the world. It is supplied to the public just

AS IT COMES FROM THE SPRINGS, and herein differs from several waters recently introduced. It is a well-known fact that the waters of MANY SPRINGS are MODIFIED by the ADDITION of CARBONIC ACID GAS, as well as of various SALTS. Such additions and manipulations give an acid and piquant flavour to the waters referred to; but they impart to them the qualities of artificial Mineral Waters, against the use of which Physicians have recently cautioned the public. Natural Seltzer Water requires

### NO ARTIFICIAL ADDITIONS.

Its natural constituents (alkaline, carbonates, and chlorides) give it the refreshing quality which assists in allaying thirst, and the carbonic acid gas, which is slowly given off, renders it very pleasant to the taste and grateful to the stomach. In order to prevent the possibility of any artificial manipulations or additions, the Inspectors of Springs have been directed to allow all persons to visit and view the whole of the works. The tenant is, moreover, bound to bottle the water direct from its source

### WITHOUT ANY ADDITION OR ALTERATION.

Seltzer Water is too well known to require any extravagant assertion as to its merits. It mixes well with wine, spirits, milk, and fruit syrups, and once tried is seldom, if ever, discarded. The public may feel assured that the genuine article is being supplied if they find the bottles and jars bear a label with the inscription as below:—



SIEMENS & CO.

SOLE AGENTS AND IMPORTERS-

PICKARDT CONIPA 26 REGENT STREET, LONDON, S.W.

CAUTION.

In order to obtain the Genuine Water, purchasers must ask for the

ROYAL

EIGHT PRIZE MEDALS AWARDED.

GOODALL'S

# HOUSEHOLD SPECIALITIES.

### LYORKSHIRE RELISH.

Most Delicious Sauce in the World. Bottles, 6d., 1s., & 2s. each.

### GOODALL'S BAKING POWDER.

The Best in the World. 1d. packets; 6d., 1s., 2s., and 5s. Tins.

### GOODALL'S EGG

One 6d. Tin is equal to 25 Eggs. In 1d. packets; 6d., 1s., and 5s. Tins.

Delicious Blancmange in a Few Minutes.

Best Tonic yet Introduced. Bottles, 6d., 1s., and 2s. each.

### GOODALL'S GINGER-BEER POWDER.

Makes the Best Ginger-Beer. Packets, 3d. and 6d.

## GOODALL'S BRUNSWICK

For Painting Stoves, Grates, Iron, Tin, &c. 6d. and 1s. Bottles.

### GOODALL'S LAVENDER WATER.

For Polishing and Cleaning all Metals. Boxes, 6d., 1s., and 2s.

### GOODALL'S JELLY

Make a Delicious and Nutritious Jelly. and Quart Boxes, 3d., 6d., and 1s. each.

PROPRIETORS-GOODALL, BACKHOUSE & CO., LEEDS.

### PATENT MEDICINES

Monthly Price List of Patent Medicines, Druggists' Sundries, &c., will be sent post free on application to

GOODALL, BACKHOUSE & CO., LEEDS.

PREPARATIONS.



MARK.

Essence of Beef Essence of Chicken Essence of Yeal Essence of Mutton Beef Tea Jelly

Concentrated Beef Tea Meat Lozenges

"O.K." Relish

Meat Juice Malted Food for Infants Extract of Malt

"O.K." Bouillon "O.K." Sauce

"O.K." Curry Powder

SEND FOR PRICE LIST.

417 & 419 KINC'S ROAD CHELSEA, LONDON, 8.W.

CHEMICAL MANUFACTURERS,

CRAYFORD MILLS, STRATFORD, LONDON.

Manufacturers of the Finest Steam-made

### GRANULAR EFFERVESCENT PREPARATIONS.

ACETATE POTASSIUM. ACETIC ACID. SPIRIT AND VINEGAR COLOURING. GLYCERINE FRUIT ESSENCES. &c

> Sole Proprietors and Manufacturers of THE NEW PRESERVATIVE:

### SEMPER-DULCIS OR EVER-SWEET.

For Milk, Cream, Butter, Sausages, &c., &c.

FINEST BUTTER-COLOUR (Buttercup Brand)
SEND FOR QUOTATIONS.

## REVOLUTION IN

TOBACCO AND CICARS, "MIXED PARCELS."

Every Requisite for the Smoker in One Order.

MINIMUM OF TROUBLE. MAXIMUM OF PROFITS. Every known Manufacturer's Packet Tobaccos and Cigarettes at their List Prices. Foreign Cigars and Tobacconists' Fancy Goods at Importers' Prices. Carriage paid on parcels of £2 upwards to any station in the United Kingdom.

### SINGLETON & COLE, Limited,

TOBACCONISTS' FACTORS,

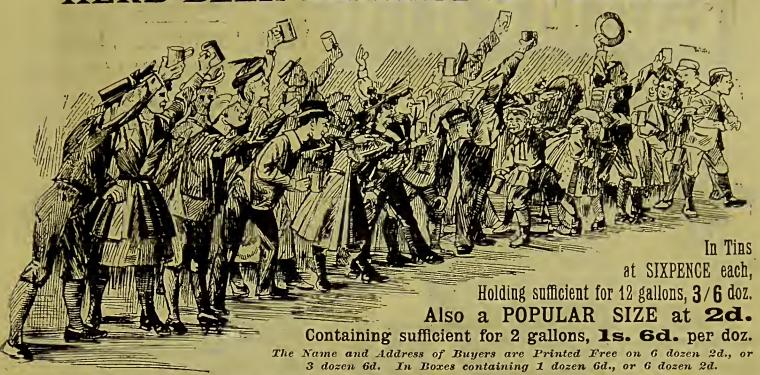
TOBACCO, SKUFF, CIGARETTE, & CIGAR MANUFACTURERS AND IMPORTERS,

11, 12, 13, 14, 15, & 16 Cannon Street, BIRMINGHAM

All Dealers in Tobacco, Cigars, Cigarettes, or Tobacconists' Fancy Goods should send P. C. for a copy of our Illustrated Price List. It is simply invaluable as a reference and guide to the Trade, and new beginners gather much useful information from it, thereby gaining experience and saving time and money.

## THE COMING DRINK!

HERB BEER EXTRACT IN POWDER.



"A Striking Novelty."-B. & C. D.

"Perfect Distribution of the Oily Materials."—C. & D.

The 2d. Tin is a New Size, and should command a Large Sale. 6 dozen 2d. Tins or 3 dozen 6d., post free for 9s. or 10s. 6d., bearing Customer's own Name and Address. In Counter Boxes, with Pictorial Illustration. Demy 16mo. Circulars for Retail use, 2s. per 1,000.

SOUTHALL BROS. & BARCLAY, BIRMINGHAM.



# CARLSBAD NATURAL

SPRUDEL-SALT

AND

WATERS.

The New Pamphlet is now ready, and will be forwarded on application to the

SOLE IMPORTERS-



## INGRAM

SC.

ROYLE

LONDON:

52 FARRINGDON STREET, E.C.

LIVERPOOL:

ON STREET, E.C. 19 SOUTH JOHN STREET.

Detailed Price List on application.



## VINEGAR

COMMANDS A PREFERENCE OVER ALL OTHERS.

WORKS { Corner of Old Street } LONDON.

ESTABLISHED OVER 200 YEARS.

### NEEDS NO GUARANTEE.

STANDARD

## BLENDED TEAS.

### DUTY PAID PRICES.

CARRIAGE PAID on 60 lbs. and upwards for NETT CASH. TEA

SPECIAL

# CEYLON SIFTINGS.

MATCHLESS LIQUOR
To Retail at 1/4.
Nett Wholesale Pric
1/- per lb.

DUTY PAID AND CARRIAGE PAID

Handbills, Window Bills, Bags, &c., supplied.

PEARSE

& MEEKING.

42 MINCING

LANE

ORE BERUINE WITHOUT THE

## TOWER TEA

HIGHEST AWARD, PARIS, 1889.

Analysis by the "LANCET," December 20th, 1890 :-

"We have submitted to examination the Teas of the Great Tower Street Tea Company (Limited). They all yield liquors which are generous to the taste, and of full strength and vigour. The results of our analysis indicate the purity and genuineness of the samples."

REBISTERED TRADE MARK.

Where Vacancies exist, Agencies are appointed by



PRIZE MEDAL, PARIS, 1889.

## THE GREAT TOWER STREET TEA CO., LIMITED

5 JEWRY STREET, LONDON, E.C.

BRAND & CO.'S

**PEPTONES** 

OF

BEEF,

MUTTON,

VEAL,

AND

CHICKEN

20

To H.R.H. The Prince of Wales, The Empress of Germany, &c.



WORCESTER, READING, HARVIE, YORKSHIRE, AND "BOROUGH" KETCHUP.

SILVER MEDAL. Per gross. Extra quality. 6/3 .. 6/3

1d. Sample Bottlee, dozen parcels dozen parcels Id. Qiant : " d-gross boxes

Per gross, Extra quality Bottles, flat or round, reputed half-pints .. Pint Imperial, round etoppered bottles
121-Gallon Casks (casks free)

ROYAL CAFE SAUCE, a Rich Fruity and Exquisite Flavour.

Square Glass Stoppered Bottles, containing nearly 1-pint Imperial, 42/- per gross.

Sample Bottles at 7/- per gross.

The attention of the

Medical Profession as also drawn to...

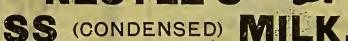
MANUFACTORY — 30 SOUTHALL PLACE, LONG LANE, BOROUGH, LONDON, S.E. CHIEF SCOTCH AGENCY - West Nile Street, GLASGOW.

An entire Diet for Infants, Children, and Invalids.

"Benders valuable assistance in Wasting Fever,"
"Beneficial as a Diet in Severe Cases of Typhoid."
"Invaluable in Cholera Infantum."

Pamphlet containing Extracts from Standard Medical Works in which the above Testimony is given, sent free with Sample Tin on application to H. NESTLÉ, 9 Snow Hill, London, E.C.





Which, through its RICHNESS in OREAM and UNIFORMITY of QUALITY, has obtained the Largest Sale in Great Britain. It can be used for all purposes of FRESH MILK.

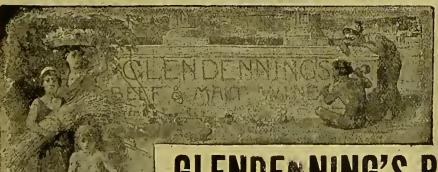
Samples to Members of the Medical Profession only, sent free on application to H. Westle, 9 Snow Hill, London, E.C.

There is no Proprietary that will give you such a good return as "PEPSALIA"-40% on your outlay, and no "cutting," no "underselling."

GUARANTEED PROFIT**OF** *8s.* IN THE

Send Postcard for Particulars and Form of Agreement to

& G. STERN. 62 Gray's Inn Road. LONDON, W.C.



REWARD.

THOSE

THEIR SALES INCREASE.

Because! the constituents used are of the very finest quality, and the public are finding it out Order through wholesale houses or direct from Sole Proprietors-

GLENDENNIN'G WIM.

9 Grainger Street, NEWCASTLE-ON-TYNE.

Established 1867.

SONS,

### LEWIS' PATENT

### CHAMBERINE COVER.



This article is MOST USEFUL for Bedrooms, the Sick Chamber, Hospitals, &c. Decorated in various Neutral Colours. Strongly recommended by the Medical Profession.

### Per dozen, 9/-.

## BICYCLE AND MACHINE



EDUCED.

A splendid Oil for Lubricating all kinds of Machinery.
6d. size, per dozen, 3/- 1/- size, per dozen, 6/6.

### NEW PATENT

### SPOON HOLDER

(GRENFELL'S PATENT.)



A very useful little novelty to clip on to side of jam or preserve jar, dish, &c., for the prevention of sticky fingers.

HANDSOMELY SILVER PLATED.

Per dozen, 3/-.

Thousands of these will be sold.

### TOILET PAPER.



All kinds of Perforated Rolls in Stock.

### BRILLIANT BELGE.



This Invaluable Polishing Material is now put up in Decorated Tin Boxes. 3 sizes.

Nos. . 1 2 Per dozen . 2/8 4/-

### LIQUID BRILLIANT BELGE.

In Stone Bottles. 4 sizes, to Retail &d., 8d., 1/-, and 1/6.



Royal Letters
Patent.

## **SELVYT**

The New Polishing Cloth & Duster

Should he supplied to every gentleman's

Butler, Footman, Valet, Coachman, Groom,

By Chemists, for use when polishing:

Silver, Glass, China, Boots (patent and brown), Carriages, Harness, and all fine and highly polished surfaces.

SELYVT" is better than wash-leather, never gets greasy, and will wash when dirty.

Write for Full List with every particular and Prices of all sizes.

THE "UNICUS"

### TEA INFUSER.



(PATENTED.)

To make a Cup of Tea, perfectly free from Tannin and other deleterious Essences, without using a Teapot.

Electro-plate on Nickel Silver, 9/- per dozen complete.
Also at higher prices.
SEND FOR FULL-PRICE LIST.

### UNBREAKABLE BOWL.

(English Make.)



Admirahly adapted for use by Chemists, in the Surgery, and for Dentists, Apothecaries, for washing Glasses, Measures, &c., &c. Round in shape. 10 inches in diameter. Assorted colours. Per dozen 8/-.

### RICH GOLD PAINT.

THE "UNICORN."



IN STONE BOTTLES.

THIS IS WONDERFUL VALUE.

Per dozen 4/-.

## PATENT PORTABLE WATER FILTER



This Filter fits on the Water Tap, and sells at 6d. each.

Adjusted in 5 seconds.
Cleaned in 5 seconds.

Packed 1 dozen in a Counter Box, Per dozen, 4/-.

### SOAP PINNACLE.

(Indiaruhher.)



In 3 shapes. Per dozen, 6/-.

W. B. FORDHAM & SONS, LTD., 36 to 40 York Rd., LONDON, N.

THE CHEMIST SUPPLEMENT

Telephone Number, 1852.

### Telegraphic Address-CHEMICUS LONDON. ADVERTISERS' AND BUYERS' REFERENCE LIST AND INDEX TO ADVERTISEMENTS.

WOTE.—The Folios shown in this Index are those at the FOOT of the Page, and not at the Top. This arrangement is necessary in order to meet the requirements of the Post Office.

Salt	Anderson & Co. (Jnne's Bath	Cook, E., & Co 30	Ingram & Royle 19	Phillips, G., & Co 73
Allen, Sadroid Sons 65  Annestroin & Appelecaries' Co. 56 Angle-Americal Purg Occiling. 59 Appellmaris Co. (Lim.) 65 Armona & O 65 Balley, W. H., & Son. 64 Baretle, R. H 69 Battle & Co 65 Bestief, J. & Co 65 Bestief, J. & Co 65 Bestief, J. & Co 65 Bernde & Co 65 Bernde & Co 65 Bernde & Co 65 Bernde & Co 65 Bertle Smith, A. E. & Co 59 Bette & Co. (Lim.) 65 Be				Plekardt & Co
Allerson & Cons. 5				Pinellin Tohnson & Co. 77
Anderson & Co.   50				Potter & Clarke
Angle American Prog Oct. (Lim.) 59 Angle American Prog Oct. (Lim.) 52 Angle American Prog Oct. (Lim.) 52 Angle American Prog Oct. (Lim.) 53 Berona Box (Lim.) 54 Berona Box (Lim.) 54 Berona Box (Lim.) 54 Berona Box (Lim.) 54 Berona Box (Lim.) 55 Be		Oritohton (7)		Driver & Cons
Anglo-American Drug Oo(Lum) 59			Tohusen Maddha & Co (Line) 20	Oucleb II C
Applinaris Co. (Lim.)			Johnson, Matthey & Co. (Lim.) 59	Quelcu, H.O
Apriland R.   36   Denomal, J.   54   Armour & Co.   41   Des. Laimas, A. E.   57   Aktinson, & Barker   52   Duncan, Flockhart & Co.   54   Ray Hros, (Lim.)   52   Lim.   56   Aktinson, & Barker   58   Duncan, Flockhart & Co.   54   Ray Hros, (Lim.)   52   Lim.   56   Aktinson, & Barker   58   Duncan, Flockhart & Co.   54   Ray Hros, (Lim.)   58   Lim.   50   Duncan, Flockhart & Co.   53   Rarett, R.   59   Elephant Distinctenant Co.   23   Leath & Recease & Ashwell   50   Elephant Distinctenant Co.   23   Leath & Recease & Ashwell   50   Leath & Recease & Co.   43   Leath & Recease & Co.   43   Leath & Recease & Co.   44   Leath & Recease & Co.   44   Leath & Recease & Co.   45   Leath & Recease & Co				Raimes & Co
Atkinson & Barker   52   Baley, W. H., & Co.   41   Baley, W. H., & Co.   42   Baley, W. H., & Co.   43   Barreta, R. H.   43   Barreta, R. H.   44   Barreta, R. H.   45   Baley, W. H., & Co.   46   Bale, R. & W.   69   Battle & Co.   65   Belden, R. & W.   69   Belden, R. & W.   60   Belden, R. & W.   6				Ransom, W., & Son 30
Atkinson & Barker   52   Baley, W. H., & Co.   41   Baley, W. H., & Co.   42   Baley, W. H., & Co.   43   Barreta, R. H.   43   Barreta, R. H.   44   Barreta, R. H.   45   Baley, W. H., & Co.   46   Bale, R. & W.   69   Battle & Co.   65   Belden, R. & W.   69   Belden, R. & W.   60   Belden, R. & W.   6		Denoual, J 54	June's Health Salt 74	
Aktingon & Barker   52   Duncan, Floakhart & Co.   48   Earley, W. H., & Son.   40   Earley & Sons (Lim.)   30   Earley & Sons (Lim.)   31   Earley & Sons (Lim.)   32   Earley & Sons (Lim.)   33   Earley & Co.   45   Earley & Sons (Lim.)   35   Earley & Co.   45   Earley & Co.   46   E		De St. Dalmas, A. E 67	Kay Bros. (Lim.) 52	
Balley, W. H., & Son.   40   Durrant & Co.   74   Krohne & Seemann   60   Robbins & Co.   54   58   Barrelay & Sons (Lim.)   39   Barrett, R. H.   69   58   Equal to & Co.   35   Elephant Disinfectant Co.   23   Leath & R. (***)   44   Bedbee & Co.   65   Elephant Disinfectant Co.   25   Leath & R. (***)   46   Bedden, R. & Co.   64   Elephant Disinfectant Co.   25   Leath & R. (***)   47   Readmann Bros. & Walsh   57	Atkinson & Barker 52	Duncan, Flookhart & Co 48	Keene & Ashwell 76	Lim 47
Barrett, R. H. H.   69	Bailey, W. H., & Son 40	Durrant & Co 74	Krohne & Sesemann 60	Robbins & Co
Barrett, R. H.   69			Kithn, B	Roberts & Co 49. 58
Battle & Co.   58   Ellis & Son   Text 318			Leath & Ress	
Eeelder, J. & Co. 65   Espos & Co. (Lim.) 64   Espos & Co. (Lim.) 65   Espos				Carifor Common (Time)
Redender   R. & W.   69   Reger's Food   44   Redender & Co.   54   Redender & Co.   55   Reversed & Co.   65   Reversed & Co.   6	Poodular I & Co 65	Enne & Co (Lim) 63		
Rerice & Co. Coloured Supplement   Ewen & Sons   32	Tolden D & W 60	Panhmann Pros. to Wolsh 67		
Evendor & Co.   Coloured Supplement   Evendor & Sons   22   Evendor & Co.   5   Exchange Column   8   Evendor & Co.   5   Evendor & Co.				
Bertel, O, & Co.   5   Exhange Column   8   Feaver, J.   5   5   Bett & Co. (Lim.)   45   Feaver, J.   5   5   5   5   5   5   5   5   5	Benger's rood			
Bertide Smith, A. E., & Co. 59 Betts & Co. (Lim.). 75 Bewley & Draper (Lim.). 44 Fellows's Syrup 37 Bewley & Draper (Lim.). 44 Fellows's Syrup 37 Loftlouse & Saltmer. 50 Sonit al Co				
Pette & Smtth, A. E., & Co.   59				Slack, W 11
Bett & Co. (Lim.)	Bertle Smith, A. E., & Co 59		Liverpool School 4	
Bether & Draper (Lim.)	Betts & Co. (Lim.) 75	Fellows's Syrup 37	Lofthouse & Saltmer 50	
Bileasdiale & Co. 61   Fink, F. & Co. 74   Elorider & Co. 62   Fink, F. & Co. 74   Elorider & Co. 64   Fink, F. & Co. 74   Elorider & Co. 75   Eleteler Bros. & Co. 12   Fetcher & Stevens on To Boehringer & Sohne 59   Bolsay Text 318   Boord & Son. 75   Bolsay Text 318   Boord & Son. 75   Boutroin & Co. (Lim.) 18   Gast & Co. 72   Elorider & Co. 85   Eleteler Bros. & Co. 12   Fetcher & Stevens on To Boehringer & Sohne 59   Bolsay Text 318   Boord & Son. 75   Boutroin & Co. (Lim.) 18   Gast & Co. 20   Gardner, W. m., & Sons 113   Ghiston, H., & Sons 113   Hooper & Co. (Lim.) 16   Grand & Co. 18   Glieberton, H., & Sons 21   Elorider & Co. 18   Glieberton, H., & Sons 21   Elorider & Co. 18   Glieberton, H., & Sons 21   Elorider & Co. 18   Glieberton, H., & Sons 21   Elorider & Co. 18   Glieberton, H., & Sons 21   Elorider & Co. 18   Glieberton, H., & Sons 21   Elorider & Co. 18   Glieberton, H., & Sons 21   Elorider & Co. 18   Glieberton, H., & Sons 21   Elorider & Co. 18   Glieberton, H., & Sons 21   Elorider & Co. 18   Glieberton, H., & Sons 21   Elorider & Co. 18   Glieberton, H., & Sons 21   Elorider & Co. 18   Glieberton, H., & Sons 21   Elorider & Co. 18   Glieberton, H., & Sons 21   Elorider & Co. 18   Glieberton, H., & Sons 21   Elorider & Co. 18   Glieberton, H., & Sons 21   Elorider & Co. 18   Glieberton, H., & Sons 21   Elorider & Co. 18   Glieberton, H., & Sons 21   Elorider & Co. 18   Glieberton, H., & Sons 21   Elorider & Co. 18	Bewley & Draper (Lim.) 44		London Homeopathie Hospital 4	
Blendade & Co. 6				
Blondeau & Co.   45   Boehm, F.   70   Boehm, F.   70   Boehringer & Stevenson   74, 7ext 318   Boond & Son.   73   Boehm, W. B., & Sons (Lim.)   22   Brade & Grey   5   Gardner, W.m., & Sons   70   Boehringer & Stevenson   73   Bourlon & Co. (Lim.)   13   Boyes Bros.   58   Gibertson, H., & Sons   69   Bradley & Bourdas.   12   Brade & Co.   20   British Paper Co.   21   Browns, T. B.   7ext 318   Browning & Co.   8   Browning & Co.   5   Brutong				
Boehringer & Sohne   59   Boehringer & Sohne   59   Bolasy   Text 318   Boord & Son   74, Text 318   Boord & Son   75   Gardner, Wm., & Sons (Lim.)   22   Boutlon & Go. (Lim.)   18   Gibson, R., & Sons   13   Boyce Bros.   58   Gilherteon, H., & Sons   13   Brade & Co.   20   Gledinning, W., & Sons   21   Brade & Co.   20   Gledinning, W., & Sons   21   Brate & Co.   20   Great Tower St. Tex 0o. (Lim.)   20   Bratby & Hinchliffe (Lim.)   16   Browne, T. B.   Text 318   Browning & Co.   8   Browning & Co.   8   Browning & Co.   11   Burgone, Burlinges & Co.   31   Burrongh, Jas.   73   Burrongh, Jas.   73   Great Tower & Co.   74   Burgone, Burlinges & Co.   32   Burrongh, Jas.   75   Great & Co. (Lim.)   60   Cadbury Bros.   Cover Carter, J. H.   71   Caste & Co. (Lim.)   60   Cadbury Bros.   Cover Carter, J. H.   71   Caste & Co.   Carter, J. H.   71   Caste & Co.   32   Carebos Salt Co. (Lim.)   20   Christy, T., & Co.   32   Carebos Salt Co. (Lim.)   20   Christy, T., & Co.   34   Carebos Salt Co. (Lim.)   20   Christy, T., & Co.   74   Christy, T., & Co.   74   Christy, T., & Co.   75   Christy, T., & Co.   75   Cocking, J. T.   40   Christy, T., & Co.   75   Cocking, J. T.   40   Christy, T., & Sons   50   Cocking, J. T.   40				
Bolsty				
Boord & Son				
Botwright & Grey   5   6   Sat & Co.   Text 318   Boulton & Co. (Lim.)   18   Gibson, R., & Sons   13   Mason, G. E., & Co. (Lim.)   28   Strong, Christy   11   Sutton, Q., & Co.   32   Strong, Christy   12   Strong, Christy   13   Sutton, Q., & Co.   32   Strong, Christy   13   Strong, Christy   14   Strong, Christy		14, 1ext 510		Stevens, P. A
Botwright & Grey   5   6   Gast & Co.   Text 318   Gibson, R., & Sons   13   Mason, G. E., & Co. (Lim.)   28   Sutton, O., & Co.   32   Sutton, O., & Co.   32   Sutton, O., & Co.   32   Sutton, O., & Co.   34   Survey, Co.   34   Survey, Co.   35   Survey, Co.   36   Survey, Co.   36   Survey, Co.   37   Survey, Co.   38   Survey, Co.   39   Survey, Co.   30   Survey, C				Stipendum Stopper Co. (Lim.) 68
Boutlon & Co. (Lim.) 18 Boyce Bros. 58 Bradley & Bourdas. 12 Brand & Co. 20 Brathy & Hinchliffe (Lim.) 16 Brett, F. J Coloured Supplement British Paper Co. 72 Brookes, T. 12 Browne, T. B. 7ext 318 Browning & Co. 8 Buchan, D. D. 11 Burgoyne, Burbridges & Co. 53 Burrongh, Jas. 73 Burrongh, Jas. 73 Burrongh, Wellcome & Co. 42, 43, 44 Burton & Sons 60 Cadbury Bros. Cover Carter, J. H. 71 Cassie & Co. 32 Carebos Salt Co. 13 Chaspion & Co. 14 Chaspion & Co. 17 Christy, T., & Co. 74 Clarke's Pyramid and Fairy Light Co. (Lim.) 7, & Sons 13 Gilbertson, H., & Sons 69 Mawson Filter Co. 61 Maxime & Co. 77 May Roberts & Co. 77 May Roberts & Co. Cover Metropolitan College 4 Metropolitan College 4 Metropolitan College 4 Millar, A., & Co. 12 Morris & Callard 50 Moss J., & Co. 72 Morris & Callard 50 Moss, J., & Co. 72 Morris & Callard 50 Moss, J., & Co. 74 Nestlé, H. 21 Newball & Mason 14, 16 Newbory & Sons 63 Newsone, C. 65 Newholls, G. W. 77 Column, C.				Strong, Christy 11
Boyce Bros. 58 Bradley & Bourdas 12 Brand & Co. 12 Brand & Baser (Lim.) Corer Metropolitan College 4 Brand & Co. 12 Brand & Co				Sutton, O., & Co
Bradley & Bourdas 12   Gledhill & Co. 12   Maxime & Co. 72   May & Baker (Lim.)   Coter Metropolitan College 4   Thicker & Co. Cover Metropolitan College 4   Thinghife (Lim.)   Coter Metropolitan College 4   Metropolitan College 4   Metropolitan College 4   Thinghife (Lim.)   Coter Metropolitan College 4   Metropolitan				
Brand & Co.   12   Glendenning, W., & Sons.   21   Maxime & Co.   72   May & Baker (Lim.)   72   Cloured Supplement British Paper Co.   72   Cloured Supplement British Paper Co.   72   Brookes, T.   12   Cloured Supplement British Paper Co.   72   Co.   72   Co.   73   Co.   74   Cloured Supplement British Paper Co.   74   Cloured Supplement British Paper Co.   75   Cloured Supplement British Paper Co.   76   Cloured Supplement British Paper Co.   72   Cloured Supplement British Paper Co.   74   Cloured Supplement British Paper Co.   74   Cloured Supplement British Paper Co.   75   Cloured Supplement British Paper Co.   75   Cloured Supplement British Paper Co.   75   Cloured Supplement British Paper Co.   76   Cloured Supplement Co.   76   Cloured Supplement British Paper Co.   76   Cloured Supplement Co.   76   Cloured Sup	Boyce Bros	Gilbertson, H., & Sons 69	Mawson Filter Co	
Brand & Co.   20   Glendenning, W., & Sons.   21   Bratby & Hinehliffe (Lim.)   16   Glover & Co.   27   Glendenning, W., & Sons.   21   Brett, F. J.   Coloured Supplement   Strick Paper Co.   72   Brookes, T.   12   Brookes, T.   12   Brown, T. B.   Text 318   Browning & Co.   8   Buchan, D. D.   11   Burgoyne, Burbridges & Co.   53   Burrongh, Jas.   73   Burrongh, Jas.   74   Burrongh, Wellcome & Co. 42, 43, 44   Burton & Sons   60   Cadbury Bros.   Cover Carter, J. H.   74   Casie & Co.   18   May & Baker (Lim.)   Corer May, Roberts & Co.   Cover Chim.)   20   May & Baker (Lim.)   Corer May, Roberts & Co.   Cover May, Roberts &	Bradley & Bourdas 12	Gledhill & Co 12	Maxime & Co	
Bratby & Hinehliffe (Lim.)   16   Gover & Co.   72   May, Roberts & Co.   Cover Metropolitan College   4   Hert, F.   Coloured Supplement British Paper Co.   72   Great Tower St. Tea Co. (Lim.)   20   Hargreaves, Dr.   4   Hargreaves, Dr.   5   Mors. J., & Co.   12   Morris & Callard   50   Mors. J., & Co.   Text 318   Browning & Co.   8   Harris, J.   6   Mors. J., & Co.   Text 318   Browning & Co.   8   Harrison, T. H.   6   Harrison, T. H.   6   Burtongh, Jas.   73   Hearn, Wright & Co.   68   Burton & Sons   60   Hert & Collingwood   16   Newberry & Sons   63   Newberry & Sons   63   Newborry & Sons   63   Newsome, C.   65   Nicholls, G. W.   74   Hill, A. S., & Sons   52   Carebos Salt Co. (Lim.)   61   Champion & Co. (Lim.)   20   Chesebrough, The, Co.   74   Hopf & Co.   74   Christy, T., & Co.   74   Christy, T., & Co.   74   Hopf & Co.   74   Christy, T., & Co.   74   Christy, T., & Co.   74   Hopf & Co.   74   Christy, T., & Co.   74   Christy, T., & Co.   74   Hopf & Co.   74   Christy, T., & Co.   75	Brand & Co 20	Glendenning, W., & Sons 21	May & Baker (Lim.)Corer	Taylor Bros
Brett, F. J.		Glover & Co		Thiellay, E. H
British Paper Co.   72   Browne Co.   72   Browne, T.   12   Browney, T.   13   Browning & Co.   8   Buchan, D.   11   Burgoyne, Burbridges & Co.   53   Burrongh, Jas.   73   Burrongh, Jas.   73   Burrongh, Jas.   73   Hearn, Wright & Co.   68   Burton & Sons   60   Cadbury Bros.   Cover Carter, J.   14   14   14   14   15   Carebos Salt Co. (Lim.)   61   Champion & Co. (Lim.)   61   Champion & Co. (Lim.)   61   Champion & Co. (Lim.)   62   Carebos Salt Co.   74   Hopf & Co.   74   Hopf & Co.   74   Christy, T., & Co.   74   Hopf & Co.   74   Christy, T., & Co.   74   Hopgood & Co.   74   Christy, T., & Co.   74   Christy, T		Goodall Backhouse & Co 18		Thornton-Pickard Co 74
Brookes, T.   12   Browne, T. B.   12   Hargreaves, Dr.   4   Morris & Callard   50   Moss, J., & Co.   7ext 318   Browning & Co.   8   Harker, Stagg & Morgan   54   Moss, J., & Co.   7ext 318   Trede Mark Society   Text 318   Trede, G., & Son   6   Harrison, T. H.   6   Moss & Co.   74   Moss & Co.   75   Moss & C				Tidman & Son (Lim.) 32
Browne, T. B.   Text 318   Browning & Co.   8   Browning & Co.   8   Buchan, D. D.   11   Burgoyne, Burbridges & Co.   53   Burrongh, Jas.   73   Burrongh, Jas.   6   Hearn, Wright & Co.   68   Burton & Sons   60   Cadbury Bros.   Cover Carter, J. H.   71   Chassie & Co.   32   Carebos Salt Co.   14   Lim.   61   Christy, T., & Co.   74   Hopf & Co.   74   Hopf & Co.   74   Hopgood & Co.   25   Carebos Salt Co.   26   Christy, T., & Co.   74   Hopgood & Co.   27   Coking, J. T.   40   Hopghton, G., & Sons   32   Coking, J. T.   40   Honghton, G., & Sons   33   Peris, Martin & Co.   70   Peris, Martin & Co.   70   Wyeth, J., & Brother   54   Brook & Horthon, G., & Sons   34   Moss, J., & Co.   74   Muhlens, F.   30   Muhlens				Todd, A. M 31, Text 318
Browning & Co.   8   Harris, J.   6   Buchan, D. D.   11   Harrison, T. H.   6   Haynes & Co.   53   Hearn, Wright & Co.   68   Burrongh, Jas.   73   Hearn, Wright & Co.   68   Burronghs, Wellcome & Co. 42, 43, 44   Hebbeler, K.   65   Newbery & Sons.   60   Cadbury Bros.   Cover Carter, J. H.   71   Cassie & Co.   32   Hirst, Brooke & Hirst (Lim.)   61   Carebos Salt Co. (Lim.)   61   Carebos Salt Co. (Lim.)   61   Carebos Co.   44   Hongood & Co.   45   Hongood & Co.   46   Clarke's Pyramid and Fairy Light Co. (Lim.)   7   Cocking, J. T.   40   Honghton, C., & Son.   39   Perls, Martin & Co.   70   Wyeth, J., & Brother.   51   Cocking, J. T.   40   Honghton, C., & Son.   39   Perls, Martin & Co.   70   Wyeth, J., & Brother.   51   Cocking, J. T.   40   Honghton, C., & Son.   39   Perls, Martin & Co.   70   Wyeth, J., & Brother.   51   Cocking, J. T.   40   Honghton, C., & Son.   39   Perls, Martin & Co.   70   Wyeth, J., & Brother.   51   Cocking, J. T.   40   Honghton, C., & Son.   39   Perls, Martin & Co.   70   Wyeth, J., & Brother.   51   Cocking, J. T.   40   Honghton, C., & Son.   39   Perls, Martin & Co.   70   Wyeth, J., & Brother.   51   Cocking, J. T.   40   Honghton, C., & Son.   39   Perls, Martin & Co.   70   Wyeth, J., & Brother.   51   Cocking, J. T.   40   Honghton, C., & Son.   39   Perls, Martin & Co.   70   Wyeth, J., & Brother.   51   Cocking, J. T.   40   Honghton, C., & Son.   39   Perls, Martin & Co.   70   Wyeth, J., & Brother.   51   Cocking, J. T.   40   Honghton, C., & Son.   39   Perls, Martin & Co.   70   Wyeth, J., & Brother.   51   Cocking, J. T.   40   Honghton, C., & Son.   39   Perls, Martin & Co.   70   Wyeth, J., & Brother.   51   Cocking, J. T.   40   Honghton, C., & Son.   39   Perls, Martin & Co.   70   Wyeth, J., & Brother.   51   Cocking, J. T.   40   Honghton, C., & Son.   39   Perls, Martin & Co.   70   Wyeth, J., & Brother.   51   Cocking, J. T.   40   Honghton, C., & Son.   39   Perls, Martin & Co.   70   Wyeth, J., & Brother.   51   Cocking, J. T.   40   Honghto		The Character Standard Standar		Trade Mark Society Text 318
Buchan, D. D				Treble, G., & Son
Burrongh, Jas				
Burrongh, Jas				
Burronghs, Wellcome & Co. 42, 43, 44 Burronghs, Wellcome & Co. 42, 43, 44 Burronghs, Wellcome & Co. 42, 43, 44 Bebbeler, K. 65 Burron & Sons 60 Cadbury Bros. Cover Carter, J. H. 71 Cassie & Co. 32 Hilldesheimer, S., & Co. (Lim.) 5 Carebos Salt Co. (Lim.) 61 Champion & Co. (Lim.) 61 Champion & Co. (Lim.) 20 Chesebrough, The, Co. 44 Hopgood & Co. 46 Clarke's Pyramid and Fairy Light Co. (Lim.) 7 Cocking, J. T. 40 Cocking, J.				Tyrer T & Co. 54
Burton & Sons 60 Hertz & Collingwood 16 Newsome, C. 65 Nieholls, G. Walker, David P. 56 Adbury Bros. Cover Carter, J. H. 71 Hill, A. S., & Sons 52 Hilldesheimer, S., & Co. (Lim.) 5 Northern School. 4 Warner, W. R., & Co. (Lim.) 28 Northern School. 4 Warner, W. R., & Co. 25 Carebos Salt Co. (Lim.) 61 Hodgkinson, Treacher & Clarke 48 Hooper & Co. 46 Christy, T., & Co. 74 Hopf & Co. 74 Christy, T., & Co. 74 Hopf & Co. 74 Churchill, J. & A. 4 Hopgood & Co. 75 Colling, J. T. 4 Hopf Co. 76 Cocking, J. T. 4 Hongloon, G., & Son 39 Perls, Martin & Co. 70 Wyeth, J., & Brother. 56 Walker, David P. 56 Walker, David P. 56 Nicholls, G. W. 74 Wandsworth Chemical Co. (Lim.) 28 Northern School. 4 Warner, W. R., & Co. 25 Washington Chemical Co. (Lim.) 60 Werner & Pfleiderer (Lim.) 70 Champion & Co. (Lim.) 20 Hooper & Co. 46 Co. (Lim.) 27 Colling, J. & A. 4 Hopgood & Co. 74 Colling, J. T. 40 Hopf & Co. 75 Williams, Dr., Medicine Co. 57 Cocking, J. T. 40 Hopf Co. 76 Wood, V. 66 Cocking, J. T. 40 Hopgton, G., & Son 39 Perls, Martin & Co. 70 Wyeth, J., & Brother. 57				
Cadbury Bros. Cover Carter, J. H. 71			Newbery & Sons	
Carter, J. H. 71   Hill, A. S., & Sons 52   Northern School 4   Warner, W. R., & Co. 25   Cassie & Co. 32   Hirst, Brooke & Hirst (Lim.) 61   Hodgkinson, Treacher & Clarke 48   Champion & Co. (Lim.) 20   Homocea 12   Chesebrough, The, Co. 44   Hopper & Co. 46   Clarke, T., & Co. 74   Hopf & Co. 74   Hopf & Co. 74   Churchill, J. & A. 4   Hopgood & Co. 32   Clarke's Pyramid and Fairy Light Co. (Lim.) 70   Horn, O. E. 32   Cocking, J. T. 40   Honghton, G., & Son 39   Perls, Martin & Co. 70   Wyeth, J., & Brother . 51   Warner, W. R., & Co. 25   Northern School 44   Warner, W. R., & Co. 25   Northern School 44   Warner, W. R., & Co. 25   Northern School 45   Northorn (Lim.) 56   Washington Chemical Co. (Lim.) 60   Werner & Pfeiderer (Lim.) 70   White, A., & Sons 60   Werner & Pfeiderer (Lim.) 70   Williams', Dr., Medicine Co. 57   Williams', Dr.,	Burton & Sons 60	Hertz & Oollingwood 16	Newsome, C 66	Walker, David P 56
Carter, J. H. 71   Hill, A. S., & Sons 52   Northern School 4   Warner, W. R., & Co. 25   Northern School 56   Washington Chemical Co. (Lim.) 60   Hodgkinson, Treacher & Clarke 48   Homocea 12   Chesebrough, The, Co. 44   Hooper & Co. 46   Charky, T., & Co. 74   Hopf & Co. 74   Churchill, J. & A. 4   Hopgood & Co. 32   Horn, C. E. 32   Cocking, J. T. 40   Honghton, G., & Son 39   Perls, Martin & Co. 70   Wyeth, J., & Brother. 55   Wasnington Chemical Co. (Lim.) 60   Wasnington Chemical Co. (Lim.) 60   Wasnington Chemical Co. (Lim.) 60   Wenter & Pfleiderer (Lim.) 70   White, A., & Sons 60   Williams', Dr., Medicine Co. 57   Crridge & Co. Coloured Supplement Co. 57   Williams', Dr., Medicine Co. 57   Williams',	Cadbury Bros Cover			Wandsworth Chemical Co.(Lim.) 28.
Cassie & Co				
Cerebos Salt Co. (Lim.)				
Champion & Co. (Lim.)       20       Homocea       12       Odams' Manure and Chemical       White, A., & Sons       60         Chesebrough, The, Co.       44       Hooper & Co.       46       Co. (Lim.)       27       Williams', Dr., Medicine Co.       57         Christy, T., & Co.       74       Hopf & Co.       74       Orridge & Co.       Coloured Supplement       Willox, W. H., & Co.       71         Churchill, J. & A.       4       Hopgood & Co.       32       Parke, Davis & Co.       49       Willows, Francis & Butler.       64         Clarke's Pyramid and Fairy       Horn, O. E.       32       Pearse & Meeking       20       Wood, V.       66         Cocking, J. T.       40       Honghton, G., & Son       39       Perls, Martin & Co.       70       Wyeth, J., & Brother.       57				Werner & Pfleiderer (Lim) 70
Chesebrough, The, Co. 44 Hooper & Co. 46 Co. (Lim.). 27 Williams', Dr., Medicine Co. 57 Christy, T., & Co. 74 Hopf & Co. 74 Hopf & Co. 74 Hopgood & Co. 32 Owens College 4 Willows, Francis & Butler. 64 Clarke's Pyramid and Fairy Light Co. (Lim.). 7 Horn, O. E. 32 Pearse & Meeking 20 Wood, V. 66 Cocking, J. T. 40 Honghton, G., & Son 39 Perls, Martin & Co. 70 Wyeth, J., & Brother. 57				White A & Sone
Christy, T., & Co.       74       Hopf & Co.       74       Orridge & Co.       Coloured Supplement       Willcox, W. H., & Co.       71         Churchill, J. & A.       4       Hopgood & Co.       32       Owens College       4       Willows, Francis & Butler       64         Clarke's Pyramid and Fairy       Light Co. (Lim.)       7       Horn, O. E.       32       Pearse & Meeking       20       Wood, V.       66         Cocking, J. T.       40       Honghton, G., & Son       39       Perls, Martin & Co.       70       Wyeth, J., & Brother       51				
Churchill, J. & A.       4       Hopgood & Co.       32       Owens College       4       Willows, Francis & Butler       64         Clarke's Pyramid and Fairy       Light Co. (Lim.)       7       Hora & Co.       Text 318       Parke, Davis & Co.       49       Wilson, A.       34         Light Co. (Lim.)       7       Horn, O. E.       32       Pearse & Meeking       20       Wood, V.       65         Cocking, J. T.       40       Honghton, G., & Son       39       Perls, Martin & Co.       70       Wyeth, J., & Brother       51				
Clarke's Pyramid and Fairy       Hora & Co.       Text 318       Parke, Davis & Co.       49       Wilson, A.       34         Light Co. (Lim.)       7       Horn, O. E.       32       Pearse & Meeking       20       Wood, V.       66         Cocking, J. T.       40       Honghton, G., & Son       39       Perls, Martin & Co.       70       Wyeth, J., & Brother       57	Оптвоу, 1., & Со 74			
Light Co. (Lim.) 7   Horn, O. E. 32   Pearse & Meeking 20   Wood, V. 66   Cocking, J. T. 40   Honghton, G., & Son 39   Perls, Martin & Co. 70   Wyeth, J., & Brother. 5				Willows, Francis & Butler 64
Light Co. (Lim.). 7 Horn, O. E. 32 Pearse & Meeking 20 Wood, V. 66 Cocking, J. T. 40 Honghton, G., & Son 39 Perls, Martin & Co. 70 Wyeth, J., & Brother. 51 Coleman & Co. (Lim.) 26 Hubbuck, T., & Son (Lim.) 60 Pfister, F. 71 Zimmermann, A. & M. 62				Wilson, A 34
Cocking, J. T				Wood, V 6 <sub>6</sub>
Coleman & Co. (Lim.) 26   Hubbuck, T., & Son (Lim.) 60   Pfister, F	Cocking, J. T		Perls, Martin & Co 70	Wyeth, J., & Brother 57
	Coleman & Co. (Lim.) 26			Zimmermann, A. & M 61

### CLASSIFIED LIST ALL **ADVERTISERS** OF

ACETIO ACID Lorens, H. Morris & Callard (Salts)

ACIDS
Boulton, J., & Co., Lim,
ADVERTISING
SPECIALITIES

Caspar & Co., Lim. Corsan, J. B. Harris, J. Surs, F. W.

Burs, F. W.

ABITO L MINDLE
Apollinaris Co.
Varnett & Foster
Bratby & Hinchliffe, Lim.
Unemats' Agrated Waters
Association, Lim.
Ellis & Son (Ruthin)
Adris & Co., Lim.
Ingram & Royle
Jewsbury & Brows
Mills & Co. (Bourns)
Oberbrunnen
Pickardt & Co.

BATTO PLANT
[See SYPROWS and HERRICHS.]
Barnett & Foster
Braiby & Hinehlifle, Lim.
Byans, Sons & Oo.
Eylands, Dan, Lim.
Tyler, Hayward, & Oo.

Australian Drug Co. Boissy borne, Proser & Co. Kampthorne, Proser & Co. Lennon, B. G., & Co. [(M.S.) Peake, Allen & Co. Prosser, Taylor & Co. Soul, W. H., & Co.

ALKALOIDS Howards & Bons (Oinehena)
Macfarlan, J. F., & Co.
Emith, T. & H., & Co.
AMIM ON IA.
May & Baker, Lim.
White, A., & Bons
Woolley, Sons & Co. Hearon, Squire & Fransis
Hewlstt & Sons
Howards & Sons
Howards & Sons
Howards & Co. (Tyrer, T., & Co.
White, Alfred, & Sons BOTTLES
Aire & Calder Bottle Co., Lim.
Barnett & Foster
Barrett, R. H.
Bratby & Hinehliffe, Lim.
Evans, Sons & Co.
Gilbertson, H., & Sons
Hearn, Wright & Uo.
Lisasos & Co.
Lohner & Konsanan Isaacs & Co.
Johnson & Sirgensen
Kilner Bros.
Lofoden Cod Liver Oil Co.
May, B., Son & Thompsen
Poths, H., & Co.
Rylands, Dan, Lim.
Stipsadum Stopper Co., Lim.
Roegood, W. | Louldon, R.

APPARATUS

Bennett, Sons & Shears Berend, O., & Oo. Christy, T., & Co. Johnson, Matthey & Co., Lim.

Johnson, Matthey & Co., Lim.

BAKING POWDER
Goodall, Backhonse & Co.,

BANDAGES
Bailey, W. H., & Son
Bobinson & Sons
Behutse, F., & Co.
Wood, Vincent

BATH & FLESH

Hargreaves, Dr., M.D. Lewis, H. K. Squire, P.

BORAK Howards & Sons Mack's Starch

BOXES Anstin & Co. (Cardboard)
Ayrton & Saundars
Wans. Sons & Co.
Ford, Shapland & Co.
Aont, G. E., & Sons
Kilner Bros.
Maxime & Co.
Bobinson & Scns
Eylands, Dan, Lim.

BRUSHES Etches, A. & F. E. Evans, Sons & Co. Kent, G. B., & Sons

BUNSEN BURNES Berend & Co.

BATH & FLESH
GLOVES

Barelay & Sons, Lim.
Ohemists' Association, Lim.
Maw, S., Son & Thompson
Partison, G. | Solport Bros.
Wood. Vincent
BATH SALTS
Anderson & Co.
BICARB. SODA
Brunner, Mond & Co., Lim.
Howards & Sons
May & Baker, Lim.
BISHUTH PRED BUTTER GOLR, &c., Boulton, J., & Co., Lim. Orawahaw & Co. Tomlinson & Hayward

CACHOUS

Bleasdale & Co.
Blyton, Astley & Co.
Jackson, T. | Raimes & Co.
Warrick Bros.

Warrick Bros.

CA PEUL ME

Denoual, J. (Medicinal)
Duncan, Flockhart & Ce,
Evans, Sons & Co.
Hooper, B., & Co.
Lioyd, T. Howard, & Ce,
Lothouse & Saltmer
Maw, S., Son & Thompson
Parks, Davis & Co.
Richardson, John, & Ce, (Leieester), Vim.
Blearns, F., & Co.
Warrick Bros.
Wyleys, Lim.

CALBNDARS Hildesheimer, S., & Co., Lim. Speller & Co. Townsend, J.

Howards & Sons May & Baker, Lim. CARBOLIC ACID

Mason, C. E., & Co.

Wandsworth Chemical Works,

CECRA SAGRADA Anderson & Co.
Dunean, Floekhart & Co.
Evans, Sons & Co.
Ferris & Co.
Harker, Stagg & Morgan
Moss, J., & Co.
Equire & Sons
Stearns, F., & Co.

Bquire & Bons

Btearns, F., & Co.

CERESIME WAX

Boehm, Fredk,
Pfister, F.

CHALK, PRECIP.

Levermore, Aug., & Co.
Nicholis, G. W.

CHEMICALS

Berger, Kahler & Co.
Boehm, Fredk,
Boehringer, C. F., & Sohne
Boulton, J., & Co., Lim.
Brunnsr, Mond & Co.

Hill, A. S., & Sons

Elimitation & Baltimer

Lorens, H.
Macfarlam, J. F., & Co.
May & Baker, Lim.
Morris & Callard, J. Moss & Co.

Tyrer, T., & Co.,
Washington Chemical Co.,
White, A., & Sons

Eliminermann, A. & M.,

GHECK TILLS
Gledhill, G. H., & Co.
O'Brien, Thos.
Stokes, G. K., & Co., Limvoncher Check Till Co., LimHOEKT PROTCTE:
Hoekin, Wilson & Co.,
Liverpool Patent Lint Co.,
Maw, S., Son & Thompson
Newbery, F., & Sons
Pattison, G.
Schnitze & Co. | Solport Bros.,
Wood, Vincent

Wood, Vineats
CHLORIDE GOLD
Johnson, Matthey & Co.
CHLOR. OP LIMIT
Government Sanitary Oc.
Hebden, W. C.
National Chemical Co.

Hebden, W. C.
National Chemical Co.
CHLORODYNT

Blyton, Astley & Co.
Davenport (Browne's)
Towle, A. F., & Son

CHLOROFORM,
Dunean, Flockhart & Co.
Macfarlan, J. F., & Co.
Emith, T. & H., & Co.
Wright, Layman & Umsey
Simmermann, A. & M.

COCALME-HYDRO.
HOWARD & SONS

COLINE-HYDRO.
Howards & Sons

COD-LIVER CIL
Allen & Hamburys
Bleasdals & Co.
Burronghe, Wellcome & Co.
Burronghe, Wellcome & Co.
Lorimer & Co.
Oppenheimer, Sons & Co., Lim.
Richardson, J., & Co., Lim.
Rath, T. & H., & Co.
Spratt's Patent (Dog Cakea)
Stearns, F., & Co.
Woolley, Sons & Co.

23

Armbrecht, Nelson & Co. French Hygienic Soc. Lorimer & Co. Stephen Smith & Co. (Hall's) COLAPSEL TURES

Betta & Co.

GOMP. MEDICINE

Allen's Hanburya
Blyton, Asbley & Co.
Burroughs, Welcome & Co.
Hooper, B., & Co., Leo & Co.
Lloyd, T., Howard & Co.
Richarden, J., & Co., Lim.
Stearns, F., & Co.
Gooper & Co.
Fistcher, Fistcher & Stsvenson
Lloyd, T., Howard, & Co.
Blohardeon, J., & Co., Lim.
Gardner, C.

GOTTON WOOL

Haynes, G., & Co. (Absorbent)
Lindner & Coi

Bobinson's Sons (Absorbent)
Banser, J., & Sons

ENSHID LINERE

BENTIFRICES, & C.

Beecham, T.

Bronnier, H., & Co.

Beecham, T. & Co.
Beecham, T. & Co.
Hanson, O.
Jewsbury & Brown
Lakeman, J. J.
Robertshaw, H. A., & Co.
Stevens, P. A.
Shiton, O., & Co.
Warrick Bros. | Wilson, A.
Woods, W. (Arecs Nnt)

Woods, W. (Arecs Nut)

ISTHYFECTANTS

Barclsy & Sons, Itim,

Reedsler & Oo.

Brooks, T.

Jryscale, J. W., & Oo.

Dussek Bros. & Co.

Elephant Disinfectant Oo.

Fietcher Bros. & Oo.

covernment Hankary Oo.

Hebden, W. O.

Lasi

Heducis, N. C.
Lasi
Jeyes Sanitary Compounds Co.
Mason, G. E., & Co.
May & Baker, Lim.
National Chemical Co., Lim.
Sanitas Co., Lim.
Sanitas Co., Lim.
Sabury & Johnson
Tyrer, T., & Co.
Wandsworth Chemical Works,
Lim.

DOG MEDICINES DRUGGISTS' SUM.

Ayrton & Saunders
Barclay & Sons, Lim.
Beiden, F. & W.
Chemists' Association, Lim.
Evans, Lescher & Webb
Evans, Sons & Oo. (Savars) Evans, Sons & Co. (Savars)
Feaver, J.
Fordham, W. B., & Sons, Lim.
Hockin, Wilson & Co.
Kay Brost. Lim.
May, S., Son & Thompson
May, Roberts & Co.
Newbery, F., & Sons
Quelch, H., O.
Salt Regal Co., Lim.
Sanger & Sons | countse & Co.
Tidman & Son | Toogood, W.
Tunbridge & Wright
Wood, Vincent

EVICE

Gilbertson; H.
Hasrn, Wrigh
Hockin, Wilso
May, Roberts
May, Roberts
May, Roberts
May, S. Son &
Shirley Bros.
Shirley Bros.
Shirley Bros.
Fittes
Fordham, W. 1
Mawson Fiftet
FLY PAP

Wood, Vin Allen, S., & Sons (Grinders)
Graf, F., Hopf, L.
Morrison, B., & Co., Lim.
(Grinders)

BRYSA TERIMS
Browning, J. H., & Co.,

YMS, & C.

Orawhaw & Co.

Farina, J. M. | Muhlens, F. | Hockin, Wilson & Co.

Day & Sons Elliman, Sons & Oo.

Barciays, Lim.
Brans, Sons & Gr.
Putney, J., & Sons
Banger & Son
Wood, Vincent

TM GRAVES
Oaspar & Co., Lim.
Corsen, J. B.

BSENCES
Bulton, J. & Co. (Lit.)

Boulton J., & Co. (Lim.)
Brabby & Hinchliffe, Lim.
Brabby & Hinchliffe, Lim.
Brargoyne, Burbidges & Go.
Bush, W. J., & Co.
Fletcher, Fletcher&Stevenson
Goodsil, Backhouse &
Godgkineons, Prestons & King
Idris & Co., Lim.
Lorimer & Co.
May & Baker, Lim.
Newball & Mason
Eylands, Dan, Lim.
Stevenson & Howell
Tyrer, F. (Anchevits)
Tyrer, T., & Co.
Woollsy, Sons & Co.

ESSENTIAL OILS

1 1000

Allen, S., & Sons
Boshm, Fredk.
Bush, W. J., & Oo.
Dodge & Clock
Drysdale, J. W., & Co.
Brans, Sons & Uo.
Brans, John, & Co.
Lambert, S., & Oo.
May& Baker, Lim
Poppelreuter, W.
Bansom, W. M., & Sons
Bylands, Dan, Lim
Bosto & Andrioli
Spurway & Go.
Sevenson & Howell
Symway & Go.
Brant, Brons, Brons
Brant, B. O.
Warrick Bron
Widenmann, Broicher & Oo.
Wright, Layman & Care
Briefe, Layman &

Wright, Layman & Jule Wright, Layman & Jule White Works & Sons Macfarian J. F., & Co., May & Baker, Lim. Robbins, J., & Co. Tyrer, T., & Co. White, A., & Sons Woolley, Sons & Co. Wright, Layman & Umney

ETHYL CHLORIDE

EUCALYPTUS Laughland, Maoksy & Baker EXALGINE ...

Kuhn, B. Armour & Co.
Brand & Co.
Idris & Co. (Viking Co.)
Liebig Co.
Liquor Carnis Co., Lim.
Mason, G., & Co., Lim.
Wyeth, J., & Brother

Allen & Hanburys Allen, G., & Co.
Allen, G., & Co.
Burgoyne, Burbidges & Co.
Burans, Sons & Co.
Lioyd, T. Howard, & Co.
Lioyd, T. Howard, & Co.
Parke, Davis & Co.
Potter & Clarke
Ransom, W., & Son
Richardson, J., & Co., Lim.
Stearns, F., & Co.
Wright, Layman & Umney

EXTRACTS, SOLID

EXTRACTS, SOLID
Allen, G., & Co.
Eansom, W., & Son
Stearns, F., & Co.
FEEDG BOTTLES
Burronghs, Welleoms & Co.
(Thermo Safe)

"Obemists' Association, Lim.
Erans. Bons & Co.
Glibertson; H.; & Sons
Hearn, Wright & Co.
Hockin, Wilson & Co.
Kiner Bros.
Marriott, E., & Co.
May, B., Son & Thompson
Shirley Bros.
Surrey Packing Co.
Youldon, E.
FILTERS

Fordham. W. B., & Sons, Lim Mawson Filter Co.

FLY PAPERS LY PAPERS
Buchan, D.
Ford. Shapland & Co.
Marshall, E.
Mather, W., Lim.
May, Koberts & Co.
Stiverlock, H.
Stack, W., Exors.
Strong, Christy
Tidman & Sons
Tunbridge & Wright

Tidman & Sons
Tunbridge & Wright

FC O D (Infants' & Invalid')
Alien & Hanburys
kenger's Food
Bovril, Lim.
\*\*rand & Co.
Cerebos Salt Co., Lim.
C aibnail, H. b.
\*\*rans, Sons & Co.
Glendenning, W., & Sons
stoodail, Haskheuse
Hearon, Squire & Francis
Liebig Co. | Lorimer & Co.
Masou, G., & Co. Lim.
Mellin's Food | Nestis, H.
Ridge, Dr. |
Squire's Chemical Food
\*\*viking Food Uc.
Wyeth, J., & Bro.
FORMIULE:
Brooks, T.

FULLERS' EARTH Fuiers Miring Oc., Lim.

OINGER ALF Bratby & Hinchine, Lim.
Ohemists' Agrated & Mineral
Water Association, Lam.
Eille & Son
Mills, R. M., 200.

GLYCERINE Blyton, Astley & Oo. (Fastilles Boelm, F. | Fink & Oo. Price's Candle Oo., Lim.

GOUT & RHHUWATIC OURE
Bromley, O.

GRANULAR PREF.

Bishop, A., & Sons
Biyton, Astley & Co.
Byans, Sons & Co.
Hearon, Squire & Francis
Lloyd, T. Howard, & Co.
Richardson, J., & Co.
Light, Layman & Umney
GUZA
Fink & Co.
(Arabic, &s.)

HAIR PREP.
Bates, F. W.
Cassie & Co.
Chessbrough Co.
Edwards & Co.
Truefitt, H. P., Lim,
HERB BEER HXTS

Newball & Mason
Potter & Clarke
Southall Bros. & Barelay
ROMEOPATH C
Epps, James, & Co., Lim.
Keene & Assuwell
Leath & Hoss.
Wateon & Wates
EYPOPEOSPILITES

Duncar, Flockhart & Co.
Fellows
Fietcher, Fletcher & Co.
Lorimer & Co. | Symes & Co.
Tyrer, T., & Co.
XMHALERS

RNIHA LERS
Burronghs, Wellcoma & Cl.
Gilbertson, H., & Sone
Gookin, Wilson & Co.
Putney, J., & Sons
Logood, W.
LNIE
Bewiey & Draper, Lim.
LNSECTICIDES
LOGGER A SONS

ENSECTICIDES

Barciay & Sons, Lim.

Hebbeler, K.

Hockin, Wilson & Co,

Lorimer & Co,

Sandford & Sons

Steiner & Co.

Stevenson & Howell

IRON, REDUCES

Berrer, Kahler & Co.

XETCHUP

Tyrer, P.

Tyrer, P.

Christy & Co. Moss, John, & Co. Ewen, J., & Sous LEMON SOUASH Kemp & Son
LIME JULON
- Evans, Sons & Co.
Lorimer & Co.

HNT
Burgoyne, Burbidges & Oo.
Ohristy, ".. & Oo.
Lindner & Co.
Liverpool Lint Oo.
Liverpool Lint Oo.
Mew, S., Son & Thompson
Newsome, O.
Robinson & Sons

LIQUORION Dennis Di Luggo & Co.

Cooper & Co.
Fletcher, Fletcher & Stevenso;
Hode kinson, Prestons & King
Lloyd, T. Howard, & Co.
Mess, John, & Co.
Oveenheimer, Son & Co., Lim
Stearue, F., & Co.

LOZENGES Allen & Hanburys
Blyton, Astley & Oo.
Gibson, E., & Sons (Manirs.)
Guest, T., & Oo.
Hill & Son | Lorimer & Oo.
Raimes & Oo.
Richardson, J., & Co., Lim.
Sterms, F., & Co.
Warrick Bros.

MACHINERY Bennett, Sons & Shears (Lim.)
Burronghs, Welicome & Co.
Oarter, T. H.
Gardner, W.
Hockin, Wilson & Co.
Martin Perls & Co.
Pindar, J. W.
Werner & Pficilerer (Knearing and Sifting)

MALT EXTROT, &o.
Allen & Hanburys
Andereon & Co.
Burronghe, Welleoms & Ce.
(Kepler's)
Giondoming, W., & Sone
(Wine)
Hearon, Squire & Fransis
Lecoute, Eugene
Lofodon Cod Liver Cli Co.
Lorimer & Co.
Moss, J., & Co.
Oppenheimer, Sons & Co., Lim.
Parke, Davis & Co.
Raimes & Co.
Raimes, Clark & Co.
Richardson, John, & Co., (Leisester), Lim.
Robinson & Co. MALT EXTROTISC

MAGNESIA Bicacdate, W. & Oo.
Evans, Sons & Co.
Henry, T. & W. (Calcinsa)
Will. A. S. & Sons
Lb yd, T. Iloward, & Co.
Louingt & Co.
Washington Chemical Co.

MARKING INES Bond (Daughter of the late John) Ink and Fencila).

MEDICINE CHSTS Burronghs, Wellcome & Co. Day, Son & Hewitt (Veterinary) Day & Sons (Veterinary) Richardson, J., & Co., Lim.

MENTHOL
Burroughs, Wellcome & Co.
Christy, T., & Co.
Evans, Sons & Co.
Hockin, Wilson & Co.
Mew. &, Son & Thompson
Shirley Bros. | Tyrer, P.

MERCURIALS . Howards & Sons May & Baker, Lim. Tyrer, T., & Co.

METH. SPIRTS, &c.
Boord & Son | Burrough, J.
Jones & Oc.
Philips, G., & Co.
Smith, S., & Co.

ROBINS, J., & Co. MICROSCOPES Darton, F., & Oo.

Nati K Noetié, H. (Condensist) MORPHIA

Macfarlan, J. F., & Oo.
Smith, Bertle, & Co.

Smith, T. & H., & Co.

NITRATE SILVER

Johnson, Matthey & Co., Lim.
OILS, PAINTS,
VARNISHES, &c. Prowning, J. H., & Oo.
Fox, W., & Sons
Matthews, H., & Oo.
Pinchin, Johnson & Co.
Wandsworth Chemical Works,

OINTMNT BASES
surroughs, Wellcome & Co. snrroughs, Weitcome & Co. (Lanoline) Ohesebrough Co. (Vaselins) Ohristy, T. & Co. Lloyd, T. Howard, & Co. Eichardson, J., & Co. (Leisse-ter), Lim.

OPIUM ... Hopf, B. OPTICIANS Botwright & Grey Darton, F., & Co.

OTTO OF ROSE Warrick Bros. OXIDE OF ZINO
Hubbuck, T., & Son, Lim.
PAPAIN

Hubbnck. T., & Son, Lim.
PAPAIN
Kuhn, B.

PAT. MEDCNS, &o.
Anglo - American Drng Oo.
(Lim.) (Preserv.)
Atkinson & Barker (Infant Barciay & Sons, Lim.
Feecham, T. (Pills)
Bow's, Dr., Liniment
Bromley, O. (Gout and Bhen, Chemists' Association, Lim.
Olarke's Blood Mixturs
Edwarde & Son
Fvans, Leschor & Webb
Fassett & Johnson
Fenning (Powders)
Goodall, Backhouse & Oo.
Holloway (Pills and Cint.)
Hovenden & Sons
Lalor (Phosphodyne, &c.)
Magkenzie, Dr. (Gatarrh Gure)
May, Roberte & Oo.
Newbery, F., & Sons
Boberts & Oo (Foreign)
Sutton, W., & Co.
Warner, H. H., & Co., Lim.
Wilsou, A. (Bunter's Nervins)
PEPPERIXINT OXI

PEPPERMINT ON Bush, W. J., & Ce. Ransom, W., & Son Stevenson & Howeli

Stevenson & Howeli
PEPSIN, & e.
Armour & Oo.
Burroughs, Welicome & Oo.
Ohassaing & Oo.
Mictcher, Fletcher & Stevenson
Newberv, F. & & Massa' Inginvin
Parke, Davis & Co.
Stearns, F., & Co.
Stern, G. & G.
Warner & Oo. (Inginvin)

May's Baker, Lim.
Robbins & Co.
Tyrer, T., & Co PETROLEUM

Allen & Hanburys Ohriety, T., & Co. Lee Oli Co., Lim. Snowdon, Sons & Co. Wandsworth Chemical Works, Lim:

PERFUNCTRY,
FAMICY SOAPS
Bereiay & Sons, Lim.
Bleasdale & Co.
Mondau & Cie. | Boehm, F.
Riyton, Astley & Co.
Brooks, T. (asild)
Butrouchs, Welleame & Co.
Bush, W. & J. & Co.
Onemists' Association, Lim.
Ohesebrough Co.
Even, J. & Sons
Faina, J. M. | Greensill & Son
Hovendon & Sons
Lanoline | Mulhens, F.
Newbery, F. & Sons (Bereoss
Pears', A & F., Lim.
Potter & Clarke
Price's Patent Candis Co.
Rodio & Andrioli
Steanne, F. & Co. Rosio & Andrioli Steaine, F., & Co. Tidman & Son | Treatt, E. O. rruefitt, H. P., Lim. Warrick Brothers West T. (Okell's Mona) Woolley, Song & Co. (Powday) Wright Layman & Umnay

Woolley, Sona & Co. (Powdar)
Wright Layman & Umnsy
PHARM. PREPA.
Allen & Hanburys
Armonr & Co.
Baiss Bros.
Basron, Harveys & Co.
Bisber, J. D.; Boehm, Fradk,
Boehringer, C. F., & Bohns
Boulton, J. & Co., Lim.
Burkoyne, Burbidges & Co.
Burreughe, Wellsoms & Co.
Forris & Co.
Fletcher, Fletcher & Co.
Gliee, Schacht & Co.
Fletcher, Fletcher & Co.
Gliee, Schacht & Son
Hewlett & Son
Hill, A. S., & Sons
Howkids & Sens
Jeyer Samitary Compounds Co.
May & Baker, Lim.
Moss, J., & Co.
Oppenheimer, Son & Co., Lim.
Parke, Davis & Co
Potter & Clarks
Bichardson, John, & Co. (Leie
Roberts & Co.
Squire & Sons
Smiton, W., & Co.
Symes & Co.
Jime & Sons
Sentton, W., & Co.
Lime, White, Alfred, & bons
Woolley, Sons & Co.
Lymer, H. H., & Co., Lim.
White, Alfred, & bons
Woolley, Sons & Co.
Lymer, H. J., & Bro.
Limmermann, A. & M
PHOTOGRAPHIC

PHOTOGRAPHIC Barelay & Sons, Lim.
Blackriars Photographis Oc.
Bochm, Fredk.
Botwright & Grey
Burronghs, Wellcome & Oc.
Ohristy, T., & Oc.
Darton, F., & Co.
Fordham, W. B., & Sons, Lim.
Houghton, G., & Son
Howards & Sons (Unewisels)
Johnson, Matthey & Co., Lim.
Kent, G. B., & Sons
Thornton-Pickard Co.
Tyrer, T., & Co. Tyrer, T., & Co. White, Alfred, & Sons Limmerman & Co.

PILL MACHINES

PILL BEACHIMES
Pindar, J. W.
Toogood, W. (Coater)
Werner & Pficiderer
PILLS (Coated, & C.)
Allen & Hanburys
Anderston Apothecaries' Hail
Beecham, Thomas
Blyton, Astley & Co.
Bromley, C. (Gont & Rhau,)
Oarter's Little Liver Pilis
Oox, Arthur H., & Co. (tastis)
Dr. Williams Medicine Co.
Dunean, Flockhart & Co.
Evans, Sons & Co.
Hearon, Souire & Francis
Hill, A. S., & Son
Holloway's
Jolly's "Duchcee" Pills
aloyd, T. Howaru, & U.,
Lorimer & Co.
McKesson & Robbins
Newbery, F., & Sons
Nortons, Lim (Carromila) McKesson & Robbins
Norbory, F., & Sons
Norbors, Lim. (Camomile)
Parke, Davie & Uo.
Potter & Sacker
Richardson, J., & Co., Lim.
Stearns, F., & Co.
Walker, D. P.
want, S. (Pearl Coaked)
Warner, W. R., & Co., (Coaked)
Wyleys, Lim.

Wyleys, Lim.

De St. Dalmas, A.

Evans, Sonsa Co.

Johnson & Johnson, Lim

Lesiles, Lim | Mather, W., Lim.

Washny & Johnson

PODOPHYLIN Bichardsou, W. A.

PULISHING
Bradley & Bourdas (Albatum)
Chancellor & Co.
Fordham, W. B., & Sons, Lim.
Lubssynski, H. & A.

PORCELAIN
TOORGOU E. Pots, rariet.

Toorood (E.o. Pote, regists)
POULTRY: FOOD
Spratt's Patent, Lim.

Chemists' Association
Edwards & Son -Evans, Sons & Co.
Newbery, F., > Pone
Sauger & Sont (Photographic

PRINTING Bowers Bros. Corsan, J. R. (Glass) Ford, Shapland & Co. Silverlock, H. Taylor Bros. | Townsend, J.

QUININE SALTS

Cohringer, O. P. A. S.

Hockin, Wilson & Co. (Wine)

Wards & Fonr

Smith, S., & Co. (Wino)

Ammermann, A. M.

RUNWHT | Tuncan, Ploc hart & Co. Tomlinson & Hayward

RUBBER GOODS
Maw, S., Son & Thompson
Victoria Rubber Co.
Wood, Vincent

SACCHARIN Allen & Hanburys Burroughs, Wellsoms & Co.

SALICIN Macfarlan & Co. Emith, T. & H., & Co. SALICYLATES

SALICYLIO ACID
Rorgoyne, Burbidges & Co.
Kuhn, B. Kuhn, B. Z.mmermann, A. & M.

SALOL

VASE

SARSAPARILIA Wilkinson's

SAUCES, PICKLES Goodall, Backhouse & Go, Mason, G., & Co., Lim. Tyrer, P.

Central School of Chemistry
City School of Chemistry
City School of Chemistry and
Pharmacy. Lim.
Liverpool School of Pharmacy
London Homeopathic and
Medical School
Manchester Col. of Pharmacy
Metropolitan Coll. of Pharmacy
Schemeld College of Pharmacy
Schemeld College of Pharmacy
School of Pharmacy
Lim.
The School of Pharmacy
Westminster College

SOIENTIFIO INSTRUMENTS Darton & Co. SEEDS

r & Olarke BEIDLITZ PWDES
Riyton, Astley & Oo.
Hockin, Wilson & Oo.
Hora & Co.
May, Roberte & Co.

May, Roberte & Co.

SELTZO GENES

Bratby & Hinchliffe, Liz.

Evans, Sons & Co.

Garaut, E.. & Co.

Hockin, Wilson & Co.

May, Roberts & Co.

Howard & Sons (Euxesis)

Vlovd Mr. A. S. (Puxesis)

Tructitt, H. P., Lim.

SHEEP DIP

Fletcher, Bros. & Co.
Jeyes Santary Compounds Co.

Ness & Co.

Odams' Cher Ical Co., Lim.

Tomiuson & Hayward (Lim.

Wandsworth Chemical Works,

Lim

SHOP FITTERS

BHOP FYTTERS
Bowling & Govier
Bygrave, J. & W.
Evans, Sone & Oo. Howlett, S.
Joseph | Natall & Co.
Treble, G., & Son

BOAP Ayrton & Saunders
Barclay & Sons, Lim.
Blondeau et Ole. (Vinolia)
Bronniey, H., & Co.
Cook, E., & Co.
Evans, Sone & Co.
Fordham. W. B., & Sons, Lim.
Jeyes' Sanitary Compounds Co.
Lorimer & Co.
Muhlens, F.
Pears, A. & F., Lim.
Tidman & Son
Wright, Layman & Umnsy

SODIUM PRXIDE.
Burton, W., & Sone

SPECTACLES

Botwright & Grey
Darton, F., & Co.

SPONGES Oressweil Bros. & Sehmlts Evane, Sons & Co. Peterson, M., & Co.

STAMPS (RUBBER) Hickieson, J.

STARCH Ohancellor & Co. (Maek's) Orltchley (Gloss) Double STOPPERS
Anstin & Co. (Sprinklers)
Barnett & Foster | Melin, C.
Orchard, E. (Polson)
Stipendum Stopper Co., Lim,

STOVES Ciark, S., & Co., Lim.

SUGAR
Blyton, Astley & Co.
Fletcher, Fietcher& Stevenson
SUGAR OF MILK
Boehm, Fredk.

SULFONAL

Burroughs, Wellsome & Co

May & Baker, Llm.

Burrough, wellcome & Co
May & Baker, Lim.

SURGICAL
Ayrton & Saunders
Balley, W. H., & Scn
Barley, W. H., & Scn
Barley & Sons. I's
Burgoyne, Burbidges & Co.
Cocking, J. T.
Eschmann Bros. & Waish
Harris, J.
Haywood, J. H.
Krohne & Sesemann
Lindner & Co.
Liverpool Patent Lint Co.
Macfarlan, J. F., & Co.
Macher, W. Lim.
Maw, S., Son & Thompson
Powell & Barstow
Quelch, H. O.
Richardson, John, & Co. Lim.
Bobinson & Sons
Schutze, F., & Co.
Statham, H., & Co.
Victoria Rubber Co.
Wood, Vincent

Wood, vincent

SYPHONS

Barnett & Foster

Reatby & Hinchliffe, Lim,
Chemlets' Aerated & Mineral
Watere Aesociation, Lim.
Fordham, W. B., & Sons, Lim.
Idris & Co., Lim.
Kilner Bros.
Rylande, Dan, Lim.

SYRUPS Blyton, Astley & Co. Cooper & Co. Fletcher, Fletcher Stevenson Varis & Co.. Lim (Liquors Stevenson & Howell

TABLETS
Blyton, Astley & Co. (Snlphur)
Corean, J. B. (Advertising)
Richardeon, J., & Co., Lim.
(Compressed)

THA Tominator, Troc., a son

VASELINE
(Tablolds)
Gt. Tower St. Tea Co.
Horniman, W. H. & F.J., a Co.,
Pearse & Meeking
[Lim]
Tominator, Troc., a son

VASELINE
(Chesebrough Co.
VERMIN KILLER

Hebbeler, K.

TEETHING PADS Marriott, E., & Oo.

THERMOMETERS Bailey, W. H., & Son Barelay & Sons, Llm, Darton, F., & Co.

TINCTURES
Bleber, J. D.
Evans, Sons & Co.
Hewlett, C. J., & Sow
Hodgkinson, Prestons & King
Lloyd, T. Howard, & Co.
Moss, John, & Co.
Parke, Davis & Co.
Wyleys, Lim.

TOBACCO & CIGRS WEED KILLERS Singleton & Oole (Lim.) Acme Chemical Co., Lim.

TOILET

Aspinal, E.
Allen & Hanburys (Ohrisms)
Butee, F. W.
British Paper Co.
Burroughs, Wellsome & Co.
(Lanoline)
Dec Oll Co.. Lim.
Hockin, Wilson & Co.
Hovenden & RorMaw, S., Son & Tb.mpson
Queloh, H. C.
Truefitt, H. P., Lim.

TOOTH PASTE Beecham, T.
Jewsbury & Brown
Maw, S., Son & Thompson
autton, O., & Uo. (Biota)
Truefitt, H. P., Lim.
Wilson, A. (Bunter's)
Woods, M. (Areca)

TRADE MARKS
Browne, T. B.
Trade Mark Society, Lim.

TRUSSES Bailey, W. H., & Ecn Evans, Sons & Co. Haywood, J. H. | Wood, V. URETHAN Howards & Sons Vaccine Association (Lymph)

VACCINATION

Rebman, F. J. Vaccine Association (Lymph)

VALUERS &
TRNSFR AGNTS
Berdoe & Oc. | Brett, F. J
Orocker, G. B., & Oc.
Orridge & Oc.
Tomlinson, Thoe., & Son

Bird & Storey | Day & Se Day, Son & Hewitt Elliman, Sons & Co, James, W. H. (Bilsters) Jeyes' Sanlary Compounds Ce Lloyd, T. Howard, & Co, Kookledge, F. M. Spratt's (Dogs) Walker, Troke & Co.

VINEGAR Champlon & Oo., Llm Pott, R. & N.

VINOLIA(Superfitt'd)
Blondeau & Oie.

Acme Chemical Co., Llm. Tomlinson & Hayward

WHOLSL & HXPRY DRUGGISTS

Allen & Hanburys
Allen & Hanburys
Allen, S. & Son: | Baiss Broa,
Barron, Harveys & C.
Bieber, J. D.
Boyce B.os.
Burgoyne, Burbidges & C.,
Bnsh, W. J., & Co.
Evans, Sons & Co.
Evans, Lescher & Webb
Fassett & Johnson
Forris & Co.
For, W., & Sons | Graf, F.,
Goodall, Backhonse & Co.
Harker, Stagg & Morgan
Hearon, Squire & Fransis
Hewlett & Bon
Hill, A. S., & Son
Hodgkinsons, Treacher
Kemp, Wm., & Son [Clarice
Lloyd, T. Howard, & Co.
Lotthone & Saltmer
Macfarlan, J. F., & Co.
Fotter & Clarke
Froseer, Taylor & Co.
Raimes, Clark & Co.
Raimes, Clark & Co.
Walkere, Troke & Co.
Walkere, Troke & Co.
Willows, Francis & Bnuler
Woolley, Jas., Sons & Co.
Wight, Layman & Umnsy
Wyleye, Lim.

WINES, SPIRITS Armbrecht, Nelson&Co. (Coss)
Burrongh, J.
Coleman & Co., Lim.
Durrant & Co.
French Hygienle Soey. (Coss)
Glendenning, W., & Sons
Goodall, Backhonse & Co.
Hirst, Brooke & Hirst, Lim.
Millar, A., & Co. (Orange)
Lobinson, B.
Emith, S., & Co. (Orange)

# ERS IN THE PILL TRADE!

Highest Award, Chicago,

SUGAR-COATED PILLS. SMALL

Unequalled in their medicinal properties or in SOLUBILITY, the best ingredients being invariably employed. Suitable for Retail Sale, in Screw-capped Pill Tubes. Not liable to Stamp Duty unless specially recommended or sold as "Proprietary."

No. 142.—Gran. Cath. Comp. (Little Cathartic Granules). Aloin, 1-10 gr.; Podophyllin, 1-5 gr.; Ext. Hyoscy., 1-20 gr.; Jalapin, 1-10 gr.; Ext. Nuc. Vom., 1-20 gr.; Ol. Res. Capsici, 1-20 gr. Dose, 1 to 4.

Per 1,000, in Plain Bottle. 4/-.

Per Small Stoppered Vase, with painted glass label, 5.6.

Per Stoppered Vase, with painted glass label (5,000), 21.-.

No. 180.—Gran. Cath. Co. c. Euonymin.—Same as "No. 142," except that 1-5 gr. Euonymin is used instead of 1-5 gr. Podophyllin. Prices same as for "No. 142."

An "all-round" Antibilious Pill, which has found favour wherever introduced, is "No. 120" ("Pil. Cathartic & Liver").

No. 120.—Pil. Cathartic and Liver.
R. Podophyllin, † gr.; Ext. Colocynth, † gr.; Pv. Soc. Aloes, 1 gr.; Pv. Seammony, † gr.; Pv. Saponis, † gr.; Ext Hyosoyami, † gr.; Gingerine, † gr. Dose, 2 to 4 pills as a purgative, 1 to 2 pills as an aperient.

Per 1,000, in Plain Bottle, 4 -.

Per Stoppered Vase, with painted glass label, 6/4.

Per Bottle (Bulk) of 5,000, 18/9.

Write for New Complete Price List of PILLS, GRANULES, and PARVULES, &c., by W. R. WARNER & CO., giving upwards of 250 Excellent Formulæ, at moderate and greatly reduced prices.

Depot: NEWBERY SONS 84

1-1 12 331

"I of it is a sufference of a support

### $\ll$

### MEMORANDUM.



From

# COLEMAN & CO., LIMITED,

MANUFACTURING

Chemists and Wine Merchants,

BANK PLAIN,

" WINCARNIS" WORKS, LOWER WESTWICK STREET,

NORWICH.

## To the CHEMISTS and DRUGGISTS of ENGLAND and WALES.

DEAR SIR,

For some time past we have prepared a "WINCARNIS," with British Wine, in order that the holders of a Sweets License might be able to sell the preparation. We have recently very much improved this manufacture, and we can now confidently recommend it. It often happens that there is a difficulty in obtaining a Foreign Wine License, and a Sweets License is more readily granted by the Magistrates than a Foreign Wine License.

It is our wish that Chemists generally should stock our preparation, and Medical Men prefer to recommend their patients to obtain the Wincarnis of Chemists than sending them to other traders. We are therefore willing, in order to facilitate matters, provided you will send us an order for One Dozen 2/9 size and One Dozen 4/6 ditto, to pay for a Sweets License, if you do not already hold one, and this License will enable you to sell any kind of British Wine, such as Orange, Ginger, &c.

The Wincarnis "with Quinine," and "Non-alcoholic," can be sold without a License, but it is far preferable to sell the Wincarnis made with British Wine, unless you hold a Foreign Wine License and can sell the Wincarnis made with Foreign Wine.

We are now advertising extensively in the United Kingdom, and a great number of Medical Men are daily recommending Coleman's "Wincarnis."

Yours faithfully,

COLEMAN & CO., Limited.

## FEVER AND SMALL POX HOSPITALS, CANAL BOATS, &c.

Edwin Turner, Esq., M.R.C.S.L , L.A.S., Medical Officer of Health, Uniform Stourbridge Union Rural Sanitary Authority, writes 13th June, 1894 :-"I consider Odams' Carbolic Powder a very potent and genuine article.

I have used it with much satisfaction in Fever and Small Pox Hospitals." Quality and Strength Mr. R. Dykes, Inspector of Nuisances and Canal Boats, Guaranteed. Northampton, writes 19th June, 1894:-"I have used largely of Messrs. Odams & Co.' Disinfecting Fluid, and in cases of infectious diseases it has given great satisfaction." SHEEP DIP. Andrew Blake, Farm Steward to Her Majesty the Queen, Osborne, Cowes, I.W., writes September 18th, 1893:-"'Odams' Fluid Dip' is fatal to insect life in any animal, and as a Sheep Dip it is not surpassed by the best I have tried." **MANUFACTURERS** MANURE TO HER MAJESTY THE QUEEN. BY SPECIAL APPOINTMENT

ODAMS' MANURE AND CHEMICAL COMPANY, Limited. HEAD OFFICE: 116 Fenchurch Street, LONDON, E.C.

# DAY, SON & HEWITT,

LARGEST MAKERS IN THE WORLD OF

## HORSE & CATTLE MEDICINES.



# THE GREATEST ANIMAL RESTORATIVE OF THE AGE.



For Fret, Colic, or Gripes in Horses, Hoven or Blown Cattle and Sheep, and General Debility in Stock. Of exceptional value for Colds, Chills, Scour, Diarrhoa, &c., &c.

Price 1s. 9d. per Bottle; 20s. per dozen.

### THE CHEMICAL EXTRACT.

For Kicks, Outs, Bruises, Sore Withers, Swellings, Strains of Ligaments and Tendons, Saddle Galls, &c. It rapidly relieves Straining and Paining after Calving and Lambing, and is the remedy for Swellen Udders and Sore Teats.

Price 2s. 6d., 3s. 6d., and 7s. per bot.

### THE CASEODYNE.

Used as Laudanum for parturition in Mares, Cows, and Ewes, when there is great pain exhibited with feverish symptoms. Highly beneficial for Inflammatory Colic or Enteritis, and for severe forms of Diarrhea.

Price 3s. 6d. per Large Bottie.

### THE RED DRENCH.

For Colds, Indigestion, Costiveness, Yellows, Surfeits, Loss of Cud, Pleurisy, Hidebound, Redwater, &c. For cleansing and checking feverish symptoms in Cows and Ewes after parturition.

Price (Cows) 13s. per doz.; (Ewes)
3s. 6d. per doz.

THE "ORIGINAL"

### HORSE-KEEPER'S MEDICINE CHESTS,

For all ailments in Horses. Prices, £1 10s. and £2 17s. 6d.

## THE "ORIGINAL" STOCK-BREEDER'S MEDICINE CHESTS.

For Horses, Cattle, and Sheep. Prices, £1 8s. 9d. and £2 16s. 6d.

## ROYAL ANIMAL MEDICINE MANUFACTORY, 22 DORSET ST., LONDON, W.

Liberal Discounts to Foreign Buyers.

Attractive Show-cards and Handbills sent with each order.

# WANDSWORTH CHEMICAL WORKS, LTD.

CARBOLIC DISINFECTANTS.



Silver Medal, Edinburgh, 1890. Highest Award.

CARBOLIC POWDER: Pink, White, or Grey Any strength. Packets, Tins, and in Bulk.

CARBOLIC ACIDS: CRUDE, 95/97% PALE, and 97/99% WATER WHITE.

SANITARY FLUID or CREOSOL: Bottles, Drums, and Casks.

IMMEDIATELY SOLUBLE IN COLD WATER.



Gold Medal, Jamaica, 1891. Highest Award

### PINEOTAS" DISINFECTANTS.

"PINEOTAS" POWDER, FLUIDS, AND OIL.

SPECIALLY SUITABLE FOR INDIA & THE

### CONCENTRATE

CARBOLIC AND JELLY, CHLORIDE OF

## **WORKS & WHARF: THE CAUSEWAY, WANDSWORTH, S.W.**

Agency-116 PRINCESS STREET, MANCHESTER.

AGENTS WANTED.



## MENT DISINFECTAN



15% Strength, as required by the Vestries. IN LABELLED TINS, PERFORATED LIDS.

per gross. ... 65/-

2d. size... 9/- per gross. 1-lb. 4d. ,, ... 16/- ,, 2-lb.

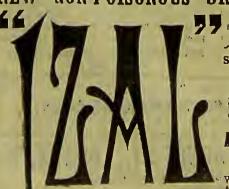
LIME. In Damp-proof, Smell-proof, not Corroding Metal-covered Boxes. 2d. size ... 9/6 per gross. | 4d. size ... 23/6 per gross. | 6d. size ... 44/6 per gross. | 1/- size ... 54/- per gross.

EUCALYPTUS FLUID. EUCALYPTUS SANITARY TABLETS (To Hang up on). PRICES ON APPLICATION TO THE MANUFACTURERS-

THE ELEPHANT DISINFECTANT CO., 34A PENROSE STREET, WALWORTH,

"IZAL" IS THE

NON-POISONOUS DISINFECTANT.



And is now supplied by the chief Wholesale Houses.

Show Cards, Pamphlets,

Printed Matter,
And any information
the Trade may require,
oan be obtained on
application to

Allen & Hanburys,

BETHNAL GREEN, LONDON, Who are the Sole Botthag Agents for the Manufactacturers. WHOLESALE & EXPORT orders for

PERFUMED SOLUTION OF

Should be addressed to

C. E. MASON & Co., 107 Whitecross St., E.C.

TERMS JPON APPLICATION.

# JEYES' FLUID

THE NON-POISONOUS DISINFECTANT.

# A TRUE GERMICIDE & DEODORISER,

Somewhat less refined than CREOLIN, the virtues of which are

RECOGNISED BY MEDICAL AUTHORITIES ALL OVER THE WORLD.

# Jeyes' Fluid and its Preparations

SHOULD BE RECOMMENDED BY THE CHEMIST EVERYWHERE WHO DESIRES TO SUPPLY ONLY RELIABLE ARTICLES.

### PRICE LIST

(ABBREVIATED).

Jeyes' Fluid,	Triple Milled Toilet Soaps.
Retail Prices Trade Prices	Elegant Tablets for the Toilet, of finest quality, containing the Antiseptic
0 6 . Sixpenny Bottles (bottles included)	Retail Prices
Sanitary Powder.  1 0 each Canisters, in boxes of 1, 2, or 3 doz 7 0 per doz.  0 6 " " (Also in Casks and Bags.) 4 0 "	N.B.—The first three varieties supplied also in 7-lb.deal Boxes. Customers' Names stamped on Tablets if sufficient quantity ordered.  Each Toilet Preparations.
Disinfectant (Brown) Soap or Household (White) Soap.  No. 1 QUALITY.—In 1-lb. Bars, papered.	1 0 Shaving Stick, in Cardboard Box
In 1-cwt. Boxes	3 0 ,, ,, Large Tubes 24 0 ,, 6 0 ,, 1-1b. Jars 48 0 ,, 1 6 Antiseptic Ointment, 10% Antiseptic, in Ohina Pot 12 0 ,, 20% Antiseptic, in Metal Box 6 0 ,
In 3-lb. Bars, 2s. per cwt. less.	3 6 Spray Diffuser, in Box complete 30 0 ,

## Sheep Dip, Wood Preserver, and other Agricultural Preparations.

TERMS, 21 PER CENT. DISCOUNT AT ONE MONTH.

All Goods delivered Free in London. For the Country, Free at any London Railway Station or Wharf.

FULL PRICE LIST ON APPLICATION.

A NEW MEDICAL PAMPHLET,

With Recent Opinions of English Medical Men, free on request.

# JEYES' SANITARY COMPOUNDS CO., Ltd. 43 CANNON STREET, LONDON, E.C.



BEST 



Commands the Highest Retail Price.



OF ALL FIRMS IN THE TRADE

Write for New Duty-paid Price List to

R. J. REUTER, Sole Agent, 62 NEW BOND STREET, LONDON, W.



Registered Label.

COOK'S PURE TOILET SOAPS.

EMOLLIENT. FRAGRANT,

COOK'S FOR COMPLEXION.

COOK'S MOST LUXURIOUS SOAP

EDWARD COOK & CO., LONDON.

TO WHOLESALE AND EXPORT TRADES.

### W. RAN

(ESTABLISHED HALF A CENTURY),

MANUFACTURING PHARMACEUTICAL CHEMISTS.

Distillers of Essential Oils and Cultivators of Medicinal Plants,

### HITCHIN. LONDON. near

SPECIALITIES:-

SOLID AND LIQUID EXTRACTS. EXPRESSED JUICES.

ESSENTIAL OIL OF LAVENDER.

ESSENTIAL OIL OF PEPPERMINT. SCAMMONY RESIN.

JALAP RESIN.
DRIED MEDICINAL LEAVES. MERCURIAL PILL AND OINTMENT. ENGLISH ACONITE ROOT. ALOIN. ENGLISH DANDELION ROOT.

Ali Standardised Preparations of the British Pharmacopœia are tested and corrected by our Analyst before leaving the Laboratory.

iInternational Exhibitions—London, 1862; Chicago, 1893. Prize Medals awarded for Pharmaceutical Extracts, Resential Cils and Dried Herbs of Surerier Quality. Also Award at the Paris Exhibition, 1867.

ELATERIUM.



## FRENCH ESSENTIAL OILS:

Neroly, Lavender, Geranium, Orris, Patchouly, Thyme, Rosemary, Spike, Santal, &c.

Oil of Neroly, Rose Water, and Orange Flower Water.

SAMPLES AND QUOTATIONS ON APPLICATION.

OUR WELL KNOWN AND VERY SUPERIOR COMPOSITIONS
STOCK KEPT IN LONDON.
Sole Agent. MR FRED'S BOEHM 4. CULLUM ST. LONDON. E.C.



## ALBERT M. TODD'S

Crystal White oil PEPPERMINT, ETC.

Five Highest Awards—Medals and Diplomas—World's Columbian Exposition, 1893.

CRYSTAL WHITE, DOUBLE DISTILLED, AND REFINED

PEPPERMINT, WINTERGREEN, ERIGERON, SPEARMINT, WORMWOOD, TANSY, &c.

These ESSENTIAL OILS are GUARANTEED ABSOLUTELY PURE, and are UNEQUALLED in SOLUBILITY, STRENGTH, FLAVOUR, THERAPEUTIC

VALUE, WHITENESS, and GENERAL EXCELLENCE.

Supplied in Bottles of 1-lb., 8-oz., and 4-oz., with the producer's name blown thereor, being sealed with metallic seals similarly impressed, secured by guarantee of quality over the producer's signature. To secure the most complete introduction possible, the prices are placed much below their true value, bringing the highest quality produced within the reach of all.

FOR FULL INFORMATION, ADDRESS

## WIDENMANN, BROICHER & COY.

GENERAL AGENTS FOR GREAT BRITAIN,

33 LIME ST., LONDON, E.C.

HEAD OFFICE AND WORKS:-KALAMAZOO, MICHIGAN, U.S.A.

The most extensive Peppermint Plantations and Works in the world.

Established A.D. 1869.

31

TIDMAN'S SEA SALT.
TIDMAN'S SALICYLIC TOILET SOAP.
TIDMAN'S GLYCERINE AND CUCUMBER SOAP.
TIDMAN'S WHITE ROSE & CUCUMBER SOAP.
TIDMAN'S OATMEAL AND COLD CREAM SOAP.
TIDMAN'S "VASTO" INSECTICIDE.

APPLY FOR LISTS AND SAMPLES TO

TIDMAN & SON, LIM., BUSHELL LONDON, E.

SOLE LONDON AGENTS FOR THE

## PATENT DEADLY FLY TRAP.

25 orders Carriage Paid in England, Scotland, and Ireland.

# HOPGOODS NUTRITIVE & HAIR SEDATIVE CREAM.

The only preparation for the Hair recommended by leading Physicians for the removal of Scurf, allaying irritation, preventing greyness and baldness, and producing a LUXUBLANT HEAD OF HAIR.

JOHN A. WALCOTT, M.D., M.R.C.S., says:—"I feel much pleasure in being able to recommend (with confidence) your NUTRITIVE CREAM in all cases of irritation of the scalp, accumulation of dandriff and loss of hair, in each of which I have feely used it with UNFAILING SUCCESS."

In Bottles to Retail at 1/8, 2/8, and 3/6. Revised Wholesale Prices, 12/6, 20/-, 30/- per doz. Supplied by all Wholesale Sundry Houses,

OSBORNE, CARRETT & CO., 51 Frith St., Soho., LONDON, W.

Best and Safest Dentifrice.



### Dr. O. E. HORN'S

SCIENTIFIC SPECIALITIES FOR



"EAU HORN," "GERMANIA HAIR

TONIC," "ACESMA," "HAIR SOLVENT," "SKIN FOOD," and numerous other preparations are having an extensive sale.

WELL ADVERTISED, GOOD DISCOUNTS,

Send for Price List and attractive Show Cards to the sole manufacturers,

CASSIE & CO., 40 Chemists, LONDON.

### EWEN'S

Pure Lard ... /11 lb.
Benzd. Lard ... 1/ ,,
Beef Marrow... 1/4 ,,
Beef Suet ... 1/9 ,,
Mutton Suet ... /9 ,,
Neatsfoot Oil ... 1/6 ,,
Trotter Oil ... 1/6 ,,
Zine Ointment 1/6 ,,

### EWEN'S

Violet Powder /10 lb.
Cosmetiques ... 3/ doz.
Tooth Powder 3/6,,
Camphor Rolls 3/3,,
Pomades ... 3/6,,
Brilliantine ... 7/,,
Soft Soap, B.P. /8 lb.
Grain Musk ...110/ oz.

TOILET AND MEDICATED SOAPS OF ALL KINDS.

J. EWEN & SONS, 5 HATFIELD ST., LONDON, S.E.

M.D. BRIGHTON.

M.R.C.S.,

L.R.C.P.. EDINBURGH.

L.R.C.P.,

BATH.

M.R.CS. TONBRIDGE.

## MEDICAL OPINIONS FELS'S GERMICI

	<u> </u>
IN ECZEMA AND SKIN DISE	ASES.
"An obstinate case of SENILE ECZEMA has received marked benefit from its use when other means had failed."	M.R.C.S., Lucester
"I have used Fels's Germicide Soap in a troubleson e case of ECZEMA between the buttocks with most beuc-ficial results."	I.R.C.P., MANCHESTER.
"In two cases of SCALY ECZEMA of Scrotum and Anus, a most trouble some disease, it gave more relief from the intense itching than anything else."	L.R.C.P., DrBLix.
"In three cases of SEVERE IRRITATION OF THE SKIN it gave IMMEDIATE RELIEF to the itching, and after two or three applications the emptions died away."	M.D., London.
"I gave the tablet you sent me to an old patient who had been suffering for over two years from CHRONIC RHINITIS, and advi ed him to use it; he hold me to-day that it has practically cured him. He certainly appeared intoxicated at the relief."	M.D., London.
IN OBSTETRICS, &c.	
"Every Obstetrician should carry a tablet in his hog, so	M.D.,
that he can give his hands a thorough wash before making a vaginal examination. If this is done I venture to say that Puerperal Fever will be a thing of the past."	LINCOLN.
"I have used it occasionally during the last fortnight in obstetric practice; its pleasant odour has been noticed by my patients as well as myself, and I can test fy to its admirable properties as a powerful detergent and delicate emollient. I have used it as an enema with gratifying results."	M.B., ABERDEEN.
"It is so readily available as a Germicide and Disinfectant; it cannot fail to be a great boon to all, but more especially to medical men, particularly to those who are chiefly occupied in SURGICAL and OBSTETRIC PRACTICE."	M.D., · Kensington.
"I have carefully analysed the same, and find it excellent in the antiseptic properties it lays claim to. I carry it in my Obstetric and Surgical Bag, and use it before operating to wash the skin involved in the operation."	M.A., M.D., LOND., LECTURER, &c.
AS A DEODORANT, DISINFEC	TANT
ANTISEPTIC, &c.	ALDINI,
"I had to remove a retained Placenta which was decomposed and HORRIBLY FETID. As I was suffering from Eczema, which affected both hands at the time, I could not bear either Perobloride or Carbolic Solution to disinfect them afterwards; so I used Fels's Germicide Scap, and although the smell previously on my hands was most offeusive, I made them sufficiently sweet to attend almost immediately afterwards two normal labours."	L.R.C.P., WEST BROMWICH.
"I have tried it myself, and believe it to be the best soap I have used, rendering the skin thoroughly smooth; a very reliable and lasting Antiseptic."	
"A good Anticeptic and l'eodoriser: far superior to the old Carbolic and Tar Soaps."	M.R.O.S., LEEDS.
"Seeing that ordinary soap is incompatible with most of the Antiseptics in general use, and that Carbolic Soap is a delusion and a snare, from an Antiseptic point of view, Fels's Germicide Soap provides a much telt want."	M.D., London.
AS A CEDMICIDE AND VEDMIN DE	CTDOVED
AS A GERMICIDE AND VERMIN DE "I have used Fels's Germicide Soap in a case of RING-	_ M.B.,
WORM. and it gave every satisfaction."  "Having tried the tablet you sent me, its cleansing	M.D.,
PEDICULI it proved useful in destroying the parasites."	HAMPSTEAD.
"I can with confidence recommend Fels's Germicide Soap, having used it constantly for some time past: I find it AN EXCELLENT AND PLEASANT ANTISEPTIC for the skin: I have used it in cases of Parasitic diseases, Ringworm, &c., with most beneficial results.  "I am of opinion it should be used for PUBLIC SHAVING to minimise the risk of contagion."	FULHAM.
"DESTRUCTIVE to GERM LIFE."	M.D., SOUTH SHIELDS.
	, , , , , , , , , , , , , , , , , , , ,

### VERMIN IN DOGS. FOR

"Woodville, Kingston Boad, Portsmouth.

"Dear Sirs,—Thanks very much for the tablet of Fels's Germicide Soap.
I have just had a good opportunity of testing its virtues. I bought a valuable St. Bernard pup, whose life was a complete misery owing to sores and irritation. I found on examination that the poor brute was being literally devoured allve by vermin. I washed the dog once only with your Soap, and am prepared to swear that there is not now a living insect on the animal. This I think a most valuable remedy for destroying vermin in animals, or germs of any kind. I intend to use it in my practice, for I am aiready convinced of its Antiseptic and Germicidal properties.

"Belleve me to be, yours very truly,"

"Belleve me to be, yours very truly,
"R. EMMETT,
"L.R.C.P. Lond, M.R.C.S. Eng., L.S.A.,
"Med. Officer, Landport, &c."

### IN DENTAL PRACTICE.

"As you sent me a sample, and also some printed matter giving the composition of the article, which saved it from the usual fate of the hundred and one articles constantly sent me, I gave it a personal trial, and must in fatrness say that it is THE BEST DEODORANT SOAP I have ever used. I suffer very much from CHAPPED HANDS, and, whether it is due to your Scap or other circumstances, the fact remains that I do not now do so. I find it a great boon in Gynecological work, both for physician and patient alike. I have used it as a Dentifrice Soap, and find it most cleansing and leaving a nice flavour in the mouth, especially after smoking."

"I have used it ever since, and it gives me much pleasure to say that I think very highly of it, both as a Toilet Sosp and as a powerful Germicide. I find it the best DENTIFRICE FOR A TENDER CONDITION OF THE GUMS arising from decayed teeth that I have ever tried. Of this I can speak from personal experience."

"I think it would prove a boou to many Dental Practitioners who, like myself, have to wash their hands from a dozen to a score times daily."

'Having myself used it as a Deutifrice, have much pleasure in stating that I find it one of the most agreeable Soaps for that purpose I have met with."

### FOR SHAVING, MORE ESPECIALLY PUBLIC SHAVING.

"I was surprised at the copious lather so directly resulting, and at the absence of all irritation of skin after giving my chin a subspanial covering of it prior to the convention of showing." the operation of shaving.

LONDON, W.

"Dr. ——— considers it perhaps the pleasantest soap he has ever used, whether for shaving or purpose of ablution."

"I am of opinion it should be used for public shaving to minimise the risk of contagion." M.R.C.S., FULHAM.

### AS A TOILET SOAP.

"I find it softens and makes the skin feel velvet-like." M.D., LONDON. "I cousider there is no better Soap in the market, and I doubt if there is any as good; us emollient quality is such as I have not observed in any other soap." M.B., DUBLIN. M.R.CS,

"I like it immensely; in fact, it is the best Soap I have used for many a day; and you may trust on my recommending it."

"I am highly pleased with the Fels's Germicide Soap. With so much rubbish in the market, it is quite a treat to find such a good article." L.F.P.S., NOTTINGHAM.

.M.B., London. "A MAGNIFICENT SOAP, and I will not omit an opportunity of prescribing it and recommending it." "As a Soap I think it an admirable one, and my family are much pleased with it." M.D.

HARROGATE. L.R.C.P., YARMOUTH. "I consider it an admirable Soap,—must command an enormous sale."

"I have used it every day since, and have never met with a better article."

LORIMER CO., Britannia Row, &z ISLINGTON.

M.D.,

ABERDEEN.

TIDMAN'S SEA SALT.

TIDMAN'S SALICYLIC TOILET SOAP.

TIDMAN'S GLYCERINE AND CUCUMBER SOAP.

TIDMAN'S WHITE ROSE & CUCUMBER SOAP.

TIDMAN'S OATMEAL AND COLD CREAM SOAP.

TIDMAN'S "VASTO" INSECTICIDE.

APPLY FOR LISTS AND SAMPLES TO

TIDMAN & SON, LIM., BUSHELL LONDON, E.

SOLE LONDON AGENTS FOR THE

## PATENT DEADLY FLY TRAP.

25 orders Carriage Paid in England, Scotland, and Ireland.

# HOPGOODS NUTRITIVE & HAIR SEDATIVE CREAM.

The only preparation for the Hair recommended by leading Physicians for the removal of Scurf, allaying irritation, preventing greyness and baldness, and producing a LUKHRIANT HEAD OF HAIR.

JOHN A. WALGOTT, M.D., M.R.C.S., says:—"I feel much pleasure in being able to recommend (with confidence) your NUTRITIVE CREAM in all cases of irritation of the scalp, accumulation of dandriff and loss of hair, in each of which I have freely used it with UNFAILING SUCCESS."

In Bottles to Retail at 1/6, 2/6, and 3/6. Revised Wholesale Prices, 12/6, 20/-, 30/- per doz. Supplied by all Wholesale Sundry Houses,

OR FROM THE DEPOT—
OSBORNE, CARRETT & CO., 51 Frith St., Soho., LONDON, W.

### Best and Safest Dentifrice.



### Dr. O. E. HORN'S

SCIENTIFIC SPECIALITIES FOR

### THE HAIR, SCALP AND SKIN.

"EAU HORN," "GERMANIA HAIR TONIC," "ACESMA," "HAIR SOLVENT," "SKIN FOOD," and numerous other preparations are having an extensive sale.

WELL ADVERTISED. BODD DISCOUNTS.

Send for Price List and attractive Show Cards to the sole manufacturers,

CASSIE & CO., 49 Chemists, LONDON.

### **EWEN'S**

Pure Lard ... /11 lb.
Benzd. Lard ... 1/- ,,
Beef Marrow... 1/4 ,,
Beef Suet -- 1/- ,,
Mutton Suet ... /9 ,,
Neatsfoot Oil ... 1/6 ,,
Trotter Oil ... 1/6 ,,
Zine Ointment 1/6 ,,

### EWEN'S

Violet Powder /10 lb.
Cosmetiques ... 3/ doz.
Tooth Powder 3/6,,
Camphor Rolls 3/3,,
Pomades ... 3/6,,
Brilliantine ... 7/,,
Soft Soap, B.P. /8 lb.
Grain Musk ...110/ oz.

TOILET AND MEDICATED SOAPS OF ALL KINDS.

J. EWEN & SONS, LONDON, S.E.

M.D., BRIGHTON.

M.R.C.S., WREXHAM.

L.R.C.P.. EDINBURGH.

LONDON, W.

M.R.C.S., FULHAM.

M.D., LONDON.

M.B., DUBLIN.

M.R.CS, YEOVIL.

## MEDICAL **OPINIONS** 1S'S GE

IN ECZEMA AND SKIN DISI	EASES.
"An obstinate case of SENILE ECZEMA has received	
marked benefit from its use when other means had failed."	Lucesten.
"I have used Fels's Germicide Soap in a troubleson e	L.R.C.P.,
case of ECZEMA between the buttocks with most beue-	MANCHESTER!
ficial results."	
"In two cases of SCALY ECZEMA of Scrotum and	L.R.C.P.,
Anus, a most trouble some disease, it gave more relief from	Drblin.
the intense itching than anything else."	
"In three cases of SEVERE IRRITATION OF	M.D.,
THE SKIN it gave IMMEDIATE RELIEF to the itch ing, and after two or three applications the eruptions died	
away."	
"I gave the lablet you sent me to an old patient who	M.D.,
had been suffering for over two years from CHRONIC	Loypoy.
RHINITIS, and advi ed him to use it: he told me to-dux	
that it has practically cured him. He certainly appeared intoxicated at the relief."	
IN OBSTETRICS, &c.	
"Every Obstetrician should carry a tablet in his bog. so	M.D.,
that he can give his hands a thorough wash before making	LINCOLN.
a vaginal examination. If this is done I venture to say	
that Puerperal Fever will be a thing of the past."	
"I have used it occasionally during the last fortnight in	M.B.,
obstetrio practice; its pleasant odour has been noticed by my patients as well as myself, and I can test fy to its	ABERDEEN.
admirable properties as a powerful detergent and delicate	
emollient. I have used it as an enema with gratifying	
results."	3 1.
"It is so readily available as a Germicide and Disin-	. M.D., .
fectant; it cannot fail to be a great boon to all, but more especially to medical men, particularly to those	KENSINGTON.
who are chiefly occupied in SURGICAL and OBSTETRIC	
PRACTICE."	
"I have carefully analysed the same, and find it excellen	M.A., M.D.,
in the antiseptic properties it lays claim to. I carry it in	LOND.
my Obstetric and Surgical Bag, and use it before	LECTURER, &c.
operating to wash the skin involved in the operation."	
AS A DEODORANT DISINEE	TANT
AS A DEODORANT, DISINFE	CTANT,
ANTISEPTIC, &c.	
ANTISEPTIC, &c.	TROP
ANTISEPTIC, &c.  "I had to remove a retained Placenta which was decomposed and HORRIBLY FETID. As I was	L.R.C.P.,
ANTISEPTIC, &c.  "I had to remove a retained Placenta which was decomposed and HORRIBLY FŒTID. As I was suffering from Eczema, which affected both hands at the time, I could not bear either Perchloride or Carholic Solve	L R.C.P., WEST BROMWICH.
ANTISEPTIC, &c.  "I had to remove a retained Placenta which was decomposed and HORRIBLY FŒTID. As I was suffering from Eczema, which affected both hands at the time, I could not bear either Perchloride or Carbolic Solution to disinfect them afterwards: so I used Fels's Germination of the statement of the statem	L R.C.P., WEST BROMWICH.
ANTISEPTIC, &c.  "I had to remove a retained Placenta which was decomposed and HORRIBLY FETID. As I was suffering from Eczema, which affected both hands at the time, I could not bear either Perchloride or Carbolic Solution to disinfect them afterwards; so I used Fels's Germicida Soan, and although the smell previously on my hands	L.R.C.P., WEST BROMWICH.
ANTISEPTIC, &c.  "I had to remove a retained Placenta which was decomposed and HORRIBLY FETID. As I was suffering from Eczema, which affected both hands at the time, I could not bear either Perchloride or Carbolic Solution to disinfect them afterwards; so I used Fels's Germicida Soap, and although the smell previously on my hands was most offensive, I made them sufficiently sweet to	L.R.C.P., WEST BROMWICH.
ANTISEPTIC, &c.  "I had to remove a retained Placenta which was decomposed and HORRIBLY FETID. As I was suffering from Eczema, which affected both hands at the time, I could not bear either Perchloride or Carbolic Solution to disinfect them afterwards; so I used Fels's Germicida Soan, and although the smell previously on my hands	L.R.C.P., WEST BROMWICH.
ANTISEPTIC, &c.  "I had to remove a retained Placenta which was decomposed and HORRIBLY FŒTID. As I was suffering from Eczema, which affected both hands at the time, I could not bear either Perchloride or Carbolic Solution to disinfect them afterwards; so I used Fels's Germicida Soap, and although the smell previously on my hands was most offensive, I made them sufficiently sweet to attend almost immediately afterwards two normal labours."	L.R.C.P., WEST BROMWICH.
ANTISEPTIC, &c.  "I had to remove a retained Placenta which was decomposed and HORRIBLY FŒTID. As I was suffering from Eczema, which affected both hands at the time, I could not bear either Perchloride or Carbolic Solution to disinfect them afterwards; so I used Fels's Germicida Soap, and although the smell previously on my hands was most offensive, I made them sufficiently sweet to attend almost immediately afterwards two normal labours."  "I have tried it myself, and believe it to be the best soap I have used, rendering the skin thoroughly smooth: a	L.R.C.P., WEST BROMWICH.
ANTISEPTIC, &c.  "I had to remove a retained Placenta which was decomposed and HORRIBLY FŒTID. As I was suffering from Eczema, which affected both hands at the time, I could not bear either Perohloride or Carbolic Solution to disinfect them afterwards; so I used Fels's Germicida Soap, and although the smell previously on my hands was most offensive, I made them sufficiently sweet to attend almost immediately afterwards two normal labours."  "I have tried it myself, and believe it to be the best soap I have used, rendering the skin thoroughly smooth; a very reliable and lasting Antiseptic."	L.R.C.P., WEST BROMWICH.
ANTISEPTIC, &c.  "I had to remove a retained Placenta which was decomposed and HORRIBLY FŒTID. As I was suffering from Eczema, which affected both hands at the time, I could not bear either Perchloride or Carbolic Solution to disinfect them afterwards; so I used Fels's Germicida Soap, and although the smell previously on my hands was most offensive, I made them sufficiently sweet to attend almost immediately afterwards two normal labours."  "I have tried it myself, and believe it to be the best soap I have used, rendering the skin thoroughly smooth; a very reliable and lasting Antiseptic."	L.R.C.P., WEST BROMWICH.
ANTISEPTIC, &c.  "I had to remove a retained Placenta which was decomposed and HORRIBLY FŒTID. As I was suffering from Eczema, which affected both hands at the time, I could not bear either Perchloride or Carbolic Solution to disinfect them afterwards; so I used Fels's Germicida Soap, and although the smell previously on my hands was most offensive, I made them sufficiently sweet to attend almost immediately afterwards two normal labours."  "I have tried it myself, and believe it to be the best soap I have used, rendering the skin thoroughly smooth: a	L.R.C.P., WEST BROMWICH.  M.D., BERWICK.
ANTISEPTIC, &c.  "I had to remove a retained Placenta which was decomposed and HORRIBLY FŒTID. As I was suffering from Eczema, which affected both hands at the time, I could not bear either Perchloride or Carbolic Solution to disinfect them afterwards; so I used Fels's Germicida Soap, and although the smell previously on my hands was most offensive, I made them sufficiently sweet to attend almost immediately afterwards two normal labours."  "I have tried it myself, and believe it to be the best soap I have used, rendering the skin thoroughly smooth; a very reliable and lasting Antiseptic."  "A good Antiseptic and Feodoriser: far superior to the old Carbolic and Tar Soaps."	L.R.C.P., WEST BROMWICH.  M.D., BERWICK.
ANTISEPTIC, &c.  "I had to remove a retained Placenta which was decomposed and HORRIBLY FŒTID. As I was suffering from Eczema, which affected both hands at the time, I could not bear either Perchloride or Carbolic Solution to disinfect them afterwards; so I used Fels's Germicida Soap, and although the smell previously on my hands was most offensive, I made them sufficiently sweet to attend almost immediately afterwards two normal labours."  "I have tried it myself, and believe it to be the best soap I have used, rendering the skin thoroughly smooth; surery reliable and lasting Antiseptic."  "A good Antiseptic and l'eodoriser: far superior to the old Carbolic and Tar Soaps."  "Seeing that ordinary soap is incompatible with most of the Antiseptics in general use and that Carbolic Soap is a	L.R.C.P., WEST BROMWICH.  M.D., BERWICK.  M.R.O.S., LEEDS,
ANTISEPTIC, &c.  "I had to remove a retained Placenta which was decomposed and HORRIBLY FŒTID. As I was suffering from Eczema, which affected both hands at the time, I could not bear either Perchloride or Carbolic Solution to disinfect them afterwards; so I used Fels's Germicida Soap, and although the smell previously on my hands was most offensive, I made them sufficiently sweet to attend almost immediately afterwards two normal labours."  "I have tried it myself, and believe it to be the best soap I have used, rendering the skin thoroughly smooth; a very reliable and lasting Antiseptic."  "A good Antiseptic and Feodoriser: far superior to the old Carbolic and Tar Soaps."  "Seeing that ordinary soap is incompatible with most of the Antiseptics in general use, and that Carbolic roap is a delusion and a snare, from an Antiseptic point of view	M.D., BERWICK.  M.R.O.S., LEEDS. M.D.,
ANTISEPTIC, &c.  "I had to remove a retained Placenta which was decomposed and HORRIBLY FŒTID. As I was suffering from Eczema, which affected both hands at the time, I could not bear either Perchloride or Carbolic Solution to disinfect them afterwards; so I used Fels's Germicida Soap, and although the smell previously on my hands was most offensive, I made them sufficiently sweet to attend almost immediately afterwards two normal labours."  "I have tried it myself, and believe it to be the best soap I have used, rendering the skin thoroughly smooth; a very reliable and lasting Antiseptic."  "A good Antiseptic and l'eodoriser: far superior to the old Carbolic and Tar Soaps."  "Seeing that ordinary soap is incompatible with most of the Antiseptics in general use and that Carbolic Soap is a	M.D., BERWICK.  M.R.O.S., LEEDS. M.D.,
ANTISEPTIC, &c.  "I had to remove a retained Placenta which was decomposed and HORRIBLY FŒTID. As I was suffering from Eczema, which affected both hands at the time, I could not bear either Perchloride or Carbolic Solution to disinfect them afterwards; so I used Fels's Germicida Soap, and although the smell previously on my hands was most offensive, I made them sufficiently sweet to attend almost immediately afterwards two normal labours."  "I have tried it myself, and believe it to be the best soap I have used, rendering the skin thoroughly smooth; avery reliable and lasting Antiseptic."  "A good Antiseptic and Peodoriser: far superior to the old Carbolic and Tar Soaps."  "Seeing that ordinary soap is incompatible with most of the Antiseptics in general use, and that Carbolic soap is a declusion and a snare, from an Antiseptic point of view, Fels's Germicide Soap provides a much felt want."	M.D., BERWICK.  M.R.O.S., LEEDS.  M.D., LONDON.
ANTISEPTIC, &c.  "I had to remove a retained Placenta which was decomposed and HORRIBLY FŒTID. As I was suffering from Eczema, which affected both hands at the time, I could not bear either Perchloride or Carbolic Solution to disinfect them afterwards; so I used Fels's Germicida Soap, and although the smell previously on my hands was most offensive, I made them sufficiently sweet to attend almost immediately afterwards two normal labours."  "I have tried it myself, and believe it to be the best soap I have used, rendering the skin thoroughly smooth; a very reliable and lasting Antiseptic."  "A good Antiseptic and I'eodoriser: far superior to the old Carbolic and Tar Soaps."  "Seeing that ordinary soap is incompatible with most of the Antiseptics in general use, and that Carbolic Soap is a delusion and a snare, from an Antiseptic point of view, Fels's Germicide Soap provides a much felt want."  AS A GERMICIDE AND VERMIN DE "I bave used Fels's Germicide Soap in a case of RING."	M.D., BERWICK.  M.R.O.S., LEEDS.  M.D., LONDON.
ANTISEPTIC, &c.  "I had to remove a retained Placenta which was decomposed and HORRIBLY FŒTID. As I was suffering from Eczema, which affected both hands at the time, I could not bear either Perchloride or Carbolic Solution to disinfect them afterwards; so I used Fels's Germicida Soap, and although the smell previously on my hands was most offensive, I made them sufficiently sweet to attend almost immediately afterwards two normal labours."  "I have tried it myself, and believe it to be the best soap I have used, rendering the skin thoroughly smooth; avery reliable and lasting Antiseptic."  "A good Antiseptic and Peodoriser: far superior to the old Carbolic and Tar Soaps."  "Seeing that ordinary soap is incompatible with most of the Antiseptics in general use, and that Carbolic soap is a declusion and a snare, from an Antiseptic point of view, Fels's Germicide Soap provides a much felt want."	M.D., BERWICK.  M.R.O.S., LEEDS.  M.D., LONDON.
ANTISEPTIC, &c.  "I had to remove a retained Placenta which was decomposed and HORRIBLY FŒTID. As I was suffering from Eczema, which affected both hands at the time, I could not bear either Perchloride or Carbolic Solution to disinfect them afterwards; so I used Fels's Germicida Soap, and although the smell previously on my hands was most offensive, I made them sufficiently sweet to attend almost immediately afterwards two normal labours."  "I have tried it myself, and believe it to be the best soap I have used, rendering the skin thoroughly smooth; avery reliable and lasting Antiseptic."  "A good Antiseptic and I'eodoriser: far superior to the old Carbolic and Tar Soaps."  "Seeing that ordinary soap is incompatible with most of the Antiseptics in general use, and that Carbolic Soap is a delusion and a snare, from an Antiseptic point of view, Fels's Germicide Soap provides a much felt want."  AS A GERMICIDE AND VERMIN DE  "I bave used Fels's Germicide Soap in a case of RING-WORM, and it gave every satisfaction."	M.D., BERWICK.  M.R.O.S., LEEDS,  M.D., LONDON.  STROYER.  M.B., RUABON.
ANTISEPTIC, &c.  "I had to remove a retained Placenta which was decomposed and HORRIBLY FŒTID. As I was suffering from Eczema, which affected both hands at the time, I could not bear either Perchloride or Carbolic Solution to disinfect them afterwards; so I used Fels's Germicida Soap, and although the smell previously on my hands was most offensive, I made them sufficiently sweet to attend almost immediately afterwards two normal labours."  "I have tried it myself, and believe it to be the best soap I have used, rendering the skin thoroughly smooth; a very reliable and lasting Antiseptic."  "A good Antiseptic and Peodoriser: far superior to the old Carbolic and Tar Soaps."  "Seeing that ordinary soap is incompatible with most of the Antiseptics in general use, and that Carbolic Soap is a delusion and a snare, from an Antiseptic point of view, Fels's Germicide Soap provides a much felt want."  AS A GERMICIDE AND VERMIN DE "I bave used Fels's Germicide Soap in a case of RING-WORM, and it gave every satisfaction."	M.D., BERWICK.  M.R.O.S., LEEDS,  M.D., LONDON.  STROYER.  M.B., RUABON.
ANTISEPTIC, &c.  "I had to remove a retained Placenta which was decomposed and HORRIBLY FŒTID. As I was suffering from Eczema, which affected both hands at the time, I could not bear either Perchloride or Carbolic Solution to disinfect them afterwards; so I used Fels's Germicida Soap, and although the smell previously on my hands was most offensive, I made them sufficiently sweet to attend almost immediately afterwards two normal labours."  "I have tried it myself, and believe it to be the best soap I have used, rendering the skin thoroughly smooth; avery reliable and lasting Antiseptic."  "A good Antiseptic and I'codoriser: far superior to the old Carbolic and Tar Soaps."  "Seeing that ordinary soap is incompatible with most of the Antiseptics in general use, and that Carbolic Soap is a delusion and a snare, from an Antiseptic point of view, Fels's Germicide Soap provides a much felt want."  AS A GERMICIDE AND VERMIN DE  "I bave used Fels's Germicide Soap in a case of RING-WORM, and it gave every satisfaction."	M.D., BERWICK.  M.R.O.S., LEEDS.  M.D., LONDON.  STROYER.  M.B., RUABON.  M.D.,
ANTISEPTIC, &c.  "I had to remove a retained Placenta which was decomposed and HORRIBLY FŒTID. As I was suffering from Eczema, which affected both hands at the time, I could not bear either Perchloride or Carbolic Solution to disinfect them afterwards; so I used Fels's Germicida Soap, and although the smell previously on my hands was most offensive, I made them sufficiently sweet to attend almost immediately afterwards two normal labours."  "I have tried it myself, and believe it to be the best soap I have used, rendering the skin thoroughly smooth; a very reliable and lasting Antiseptic."  "A good Antiseptic and l'eodoriser: far superior to the old Carbolic and Tar Soaps."  "Seeing that ordinary soap is incompatible with most of the Antiseptics in general use, and that Carbolic roap is a delusion and a snare, from an Antiseptic point of view, Fels's Germicide Soap provides a much felt want."  AS A GERMICIDE AND VERMIN DE "I bave used Fels's Germicide Soap in a case of RING-WORM, and it gave every satisfaction."  "Having tried the tablet you sent me, its cleansing properties are beyond question, and in one case of PEDICULI it proved useful in destroying the parasites."  "I can with confidence recommend Fels's Germicides."	M.D., BERWICK.  M.R.O.S., LEEDS,  M.D., LONDON.  STROYER.  M.B., RUABON.  M.D., HAMPSTEAD.
ANTISEPTIC, &c.  "I had to remove a retained Placenta which was decomposed and HORRIBLY FŒTID. As I was suffering from Eczema, which affected both hands at the time, I could not bear either Perchloride or Carbolic Solution to disinfect them afterwards; so I used Fels's Germicida Soap, and although the smell previously on my hands was most offensive, I made them sufficiently sweet to attend almost immediately afterwards two normal labours."  "I have tried it myself, and believe it to be the best soap I have used, rendering the skin thoroughly smooth; a very reliable and lasting Antiseptic."  "A good Antiseptic and Feodoriser: far superior to the old Carbolic and Tar Soaps."  "Seeing that ordinary soap is incompatible with most of the Antiseptics in general use, and that Carbolic hoap is a declusion and a snare, from an Antiseptic point of view, Fels's Germicide Soap provides a much felt want."  AS A GERMICIDE AND VERMIN DE "I have used Fels's Germicide Soap in a case of RING-WORM, and it gave every satisfaction."  "Having tried the tablet you sent me, its cleaning properties are beyond que-tion, and in one case of PEDICULI it proved useful in destroying the parasites."  "I can with confidence recommend Fels's Germicide Soap, having used it constantly for some time past: I fine Soap, having used it constantly for some time past: I fine	M.D., BERWICK.  M.R.O.S., LEEDS.  M.D., LONDON.  STROYER.  M.B., RUABON.  M.D., HAMPSTEAD.
ANTISEPTIC, &c.  "I had to remove a retained Placenta which was decomposed and HORRIBLY FŒTID. As I was suffering from Eczema, which affected both hands at the time, I could not bear either Perchloride or Carbolic Solution to disinfect them afterwards; so I used Fels's Germicida Soap, and although the smell previously on my hands was most offensive, I made them sufficiently sweet to attend almost immediately afterwards two normal labours."  "I have tried it myself, and believe it to be the best soap I have used, rendering the skin thoroughly smooth; a very reliable and lasting Antiseptic."  "A good Antiseptic and I'eodoriser: far superior to the old Carbolic and Tar Soaps."  "Seeing that ordinary soap is incompatible with most of the Antiseptics in general use, and that Carbolic Soap is a delusion and a snare, from an Antiseptic point of view, Fels's Germicide Soap provides a much felt want."  AS A GERMICIDE AND VERMIN DE  "I bave used Fels's Germicide Soap in a case of RING-WORM, and it gave every satisfaction."  "Having tried the tablet you sent me, its cleansing properties are beyond que-tion, and in one case of PEDICULI it proved useful in destroying the parasites."  "I can with confidence recommend Fels's Germicide Soap, having used it constantly for some time past: I find it AN EXCELLENT AND PLEASANT ANTISEPTIC for the skin: I have used it in cases of Parasitic dispages.	M.D., BERWICK.  M.R.O.S., LEEDS.  M.D., LONDON.  STROYER.  M.B., RUABON.  M.B., RUABON.  M.B., FULHAM.
ANTISEPTIC, &c.  "I had to remove a retained Placenta which was decomposed and HORRIBLY FŒTID. As I was suffering from Eczema, which affected both hands at the time, I could not bear either Perchloride or Carbolic Solution to disinfect them afterwards; so I used Fels's Germicida Soap, and although the smell previously on my hands was most offensive, I made them sufficiently sweet to attend almost immediately afterwards two normal labours."  "I have tried it myself, and believe it to be the best soap I have used, rendering the skin thoroughly smooth; a very reliable and lasting Antiseptic."  "A good Antiseptic and l'eodoriser: far superior to the old Carbolic and Tar Soaps."  "Seeing that ordinary soap is incompatible with most of the Antiseptics in general use, and that Carbolic roap is a delusion and a snare, from an Antiseptic point of view, Fels's Germicide Soap provides a much felt want."  AS A GERMICIDE AND VERMIN DE "I bave used Fels's Germicide Soap in a case of RING-WORM, and it gave every satisfaction."  "Having tried the tablet you sent me, its cleansing properties are beyond question, and in one case of PEDICULI it proved useful in destroying the parasites."  "I can with confidence recommend Fels's Germicide Soap, having used it constantly for some time past: I find it AN EXCELLENT AND PLEASANT ANTISEPTIC for the skin: I have used it in cases of Parasitic diseases, Ringworm, &c., with most beneficial results.	M.D., BERWICK.  M.R.O.S., LEEDS.  M.D., LONDON.  STROYER.  M.B., RUABON.  M.B., RUABON.  M.B., FULHAM.
ANTISEPTIC, &c.  "I had to remove a retained Placenta which was decomposed and HORRIBLY FŒTID. As I was suffering from Eczema, which affected both hands at the time, I could not bear either Perchloride or Carbolic Solution to disinfect them afterwards; so I used Fels's Germicida Soap, and although the smell previously on my hands was most offensive, I made them sufficiently sweet to attend almost immediately afterwards two normal labours."  "I have tried it myself, and believe it to be the best soap I have used, rendering the skin thoroughly smooth; a very reliable and lasting Antiseptic."  "A good Antiseptic and Feodoriser: far superior to the old Carbolic and Tar Soaps."  "Seeing that ordinary soap is incompatible with most of the Antiseptics in general use, and that Carbolic foap is a delusion and a snare, from an Antiseptic point of view, Fels's Germicide Soap provides a much felt want."  AS A GERMICIDE AND VERMIN DE "I have used Fels's Germicide Soap in a case of RING-WORM, and it gave every satisfaction."  "Having tried the tablet you sent me, its cleansing properties are beyond que-tion, and in one case of PEDICULI it proved useful in destroying the parasites."  "I can with confidence recommend Fels's Germicide Soap, having used it constantly for some time parsites."  "I can with confidence recommend Fels's Germicide Soap, having used it constantly for some time parsites."  "I am of opinion it should be used for PIBLIC and opinion it should be used for PIBLIC."	M.D., BERWICK.  M.R.O.S., LEEDS.  M.D., LONDON.  STROYER.  M.B., RUABON.  M.B., RUABON.  M.B., FULHAM.
ANTISEPTIC, &c.  "I had to remove a retained Placenta which was decomposed and HORRIBLY FŒTID. As I was suffering from Eczema, which affected both hands at the time, I could not bear either Perchloride or Carbolic Solution to disinfect them afterwards; so I used Fels's Germicida Soap, and although the smell previously on my hands was most offensive, I made them sufficiently sweet to attend almost immediately afterwards two normal labours."  "I have tried it myself, and believe it to be the best soap I have used, rendering the skin thoroughly smooth; a very reliable and lasting Antiseptic."  "A good Antiseptic and I codoriser: far superior to the old Carbolic and Tar Soaps."  "Seeing that ordinary soap is incompatible with most of the Antiseptics in general use, and that Carbolic roap is a delusion and a snare, from an Antiseptic point of view, Fels's Germicide Soap provides a much felt want."  AS A GERMICIDE AND VERMIN DE  "I have used Fels's Germicide Soap in a case of RING-WORM, and it gave every satisfaction."  "Having tried the tablet you sent me, its cleansing properties are beyond question, and in one case of PEDICULI it proved useful in destroying the parasites."  "I can with confidence recommend Fels's Germicide Soap, having used it constantly for some time past: I find it AN EXCELLENT AND PLEASANT ANTISEPTIC for the skin: I have used it in cases of Purasitic diseases, Ringworm, &c., with most beneficial results.  "I am of opinion it should be used for PUBLIC SHAVING to minimise the rlsk of contagiou."	M.D., BERWICK.  M.R.O.S., LEEDS.  M.D., LONDON.  STROYER.  M.B., RUABON.  M.B., RUABON.  M.B., FULHAM.
ANTISEPTIC, &c.  "I had to remove a retained Placenta which was decomposed and HORRIBLY FŒTID. As I was suffering from Eczema, which affected both hands at the time, I could not bear either Perchloride or Carbolic Solution to disinfect them afterwards; so I used Fels's Germicida Soap, and although the smell previously on my hands was most offensive, I made them sufficiently sweet to attend almost immediately afterwards two normal labours."  "I have tried it myself, and believe it to be the best soap I have used, rendering the skin thoroughly smooth; a very reliable and lasting Antiseptic."  "A good Antiseptic and Feodoriser: far superior to the old Carbolic and Tar Soaps."  "Seeing that ordinary soap is incompatible with most of the Antiseptics in general use, and that Carbolic foap is a delusion and a snare, from an Antiseptic point of view, Fels's Germicide Soap provides a much felt want."  AS A GERMICIDE AND VERMIN DE "I have used Fels's Germicide Soap in a case of RING-WORM, and it gave every satisfaction."  "Having tried the tablet you sent me, its cleansing properties are beyond que-tion, and in one case of PEDICULI it proved useful in destroying the parasites."  "I can with confidence recommend Fels's Germicide Soap, having used it constantly for some time parsites."  "I can with confidence recommend Fels's Germicide Soap, having used it constantly for some time parsites."  "I am of opinion it should be used for PIIRLIC for the skin: I have used it in cases of Parasitic diseases, Ringworm, &c., with most beneficial results.  "I am of opinion it should be used for PIIRLIC	M.D., BERWICK.  M.R.O.S., LEEDS.  M.D., LONDON.  STROYER.  M.B., RUABON.  M.B., RUABON.  M.B., FULHAM.

### FOR VERMIN IN DOGS.

"DEAR SIRS,—Thanks very much for the tab'et of Fels's Germicide Soap. I have just had a good opportunity of testing its virtues. I bought a valuable St. Bernard pup, whose life was a complete misery, owing to sores and irritation. I found on examination that the poor brute was being literally devoured alive by vermin. I washed the dog once only with your Soap, and am prepared to swear that there is not now a living insect on the animal. This I think a most valuable remedy for destroying vermin in animals, or germs of any kind. I intend to use it in my practice, for I am aiready convinced of its Antiseptic and Germicidal properties.

"Believe me to be, soms very truly,

"Believe me to bc, yours very truly,
"R. EMMETT,
"L.R.C.P. Lond, M.R.C.S. Eng., L.S.A.,
"Med. Officer, Landport, &c."

### IN DENTAL PRACTICE.

"As you sent me a sample, and also some printed matter giving the composition of the article, which saved it from the usual fate of the hundred and one articles constantly sent me, I gave it a personal trial, and must in fatness say that it is THE BEST DEODORANT SOAP I have ever used. I suffer very mucb from CHAPPED HANDS, and, whether it is due to your Seap or other circumstances, the fact remains that I do not now do so. I find it a great boon in Gynecological work, both for physician and patient alike. I have used it as a Dentifrice Soap, and find it most cleansing and leaving a nice flavour in the mouth, especially after smoking."

"I have used it ever since, and it gives me much pleasure to say that I think very highly of it, both as a Toilet Soap and as a powerful Germicide. I find it the best DENTIFRICE FOR A TENDER CONDITION OF THE GUMS arising from decayed teeth that I have ever tried. Of this I can speak from personal experience."

"I think it would prove a boon to many Dental Practi-tioners who, like myself, have to wash their hands from a dozen to a score times daily."

'Having myself used it as a Deutifrice, have much pleasure in stating that I find it one of the most agreeable Soaps for that purpose I have met with."

L.R.C.P., BATH.

### FOR SHAVING, MORE ESPECIALLY PUBLIC SHAVING. M.R.CS., TONBRIDGE.

"I was surprised at the copious lather so directly resulting, and at the absence of all irritation of skin after giving my chin a substantial covering of it prior to the operation of shaving." the operation of shaving.

"Dr. —— considers it part aps the pleasautest soap he has ever used, whether for shaving or purpose of ablution."

"I am of opinion it should be used for public shaving to minimise the risk of contagion."

### AS A TOILET SOAP.

"I find it softens and makes the skin feel velvet-like."

"I consider there is no better Soap in the market, and I doubt if there is any as good; us emollient quality is such as I have not observed in any other soap."

"I like it immensely; in fact, it is the best Soap I have used for many a day; and you may trust on my recommending it."

"I am highly pleased with the Fels's Germicide Soap. L.F.P.S., With so much rubbish in the market, it is quite a treat NOTTINGHAM to find such a good article."

.M.B., LONDON. "A MAGNIFICENT SOAP, and I will not omit au opportunity of prescribing it and recommending it."

"As a Soap I think it an admirable one, and my family are much pleased with it." M.D., HARROGATE. L.R.O.P., YARMOUTH.

"I consider it an admirable Soap,—must command an enormous sale."

"I have used it every day since, and have never met with a better article." M.D., ABERDEEN.

LORIMER CO., Britannia Row, ISLINGTON.

### GOLD MEDAL

JAMAICA EXHIBITION.

A PURE AND PERFECT ARTICLE FOR

Teeth, Gums, and Breath.

URILINE
REGISTERED

TOOTH POLISH

Will purify and beautify the Teeth with a pearly whiteness polish the enamel; prevent tartar; destroy all living germs and keep the mouth in a delicious condition of comfort, health, purity, and fragrance. Non-gritty, and absolutely pure and harmless to use. Price One Shilling, in handsome Enamel Box.

### The POPULAR DENTIFRICE, which Sells at Sight,

Handsomely put up in Show-cases, as here shown. Printed in Twelve Colours. An ornament to any window.

Price 7/6 per dozen, of all Wholesale Houses.



The COURT CIRCULAR says:—"'Puriline' emanates from the laboratory of 'Bunter's Nervine' fame. Bunter's previous preparations for the teeth have received such high encomiums from medical men that it is not surprising that this latest production should have received the recognition and approval of those best qualified to pronounce on its merits."

H. M. STANLEY, D.C.L., LL.D., the great African explorer says:—"I use 'Puriline Tooth Polish and Wash'; am much pleased with both."

The Countess of ROSSLYN writes:—"Have been recommended to use your Dentifrice, called 'Puriline,' It is extremely nice; please send me six more."

Show-cards and Handbills supplied by

A. WILSON, 422 Clapham Road, LONDON, S.W. Proprietor of "Bunter's Nervine," "Dentine," and "Puriline."

PARIS EXHIBITION, 1889.

### PRIZE MEDAL AWARDED TO



# SALVO = PETROLIA"

Absolutely Genuine Paraffinum Molle of the very Purest Form, and we claim that it is superior to Vaseline.

Manufactured by the Proprietors in Five distinct qualities— WHITE, LEMON, YELLOW, GOLDEN, AND VETERINARY.

PACKED IN TINS, 1, 5, 10, 14, 23, 56, and 112 lbs.—Also in 3-cwt. casks.

Samples and Prices on application.

## "EDIBLE SALVO PETROLIA,"

For Public Speakers, Actors, and Singers.

1s. 6d. per Tube.

## "OLEUM DEELINÆ"

(REGISTERED).

Universally adopted by the Medical Profession for

OPHTHALMIA, SCURVY, RINGWORM, ECZEMA, AND ALL SKIN-DISEASES.

For External and Internal Irritation of every kind.

One Doz. 1s. 6d. Bottles; One Doz. 2s. 6d. Bottles. Pint Bottles, 4s. 6d. each, less Trade Discounts.

For Hospital and Dispensary purposes in larger quantities.

TESTIMONIALS MAY BE HAD UPON APPLICATION.

The above are Manufactured Solely by the Proprietors,

# THE DEE OIL COMPY.

LIMITED.

Works—SALTNEY, CHESTER.

LONDON OFFICES-

### 49 LIME STREET, E.C.

Liverpool, Dublin, Manchester, Glasgow, Hull, Cardiff, Bristol, Belfast, Barrow-in-Furness, Nottingham, Paris, Hamburg, &c.

xxxiii

## DWA

# FNE" FOR THE HA

WORLD-RENOWNED HAIR PRODUCER AND RESTORER. Sells Better and Quicker than any other Hair Preparation.





Handsomely-framed Show-cards in 15 colours, size 16 by 21, and 1,000 Counter Bills with Chemist's Name and Address, sent carriage paid on application.

1s., 2s. 6d., and 5s. 6d. per Bottle.

WHOLESALE

ED WARDS & CO., 95 HIGH HOLBORN, LONDON, W.C.

THE PUBLIC HAVE ALREADY TAKEN THIS UP, AND IT IS "GOING" SPLENDIDLY.

# ALL'S NEIGEL

(Inventor of "ASPINALL'S ENAMEL")

An absolutely non-poisonous, wonderfully refreshing, health-giving preparation for the skin. NOT a cosmetic.

> MAKES THE OLD YOUNG! THE YOUNG YOUNGER!!

# IMPORTANT TO CHEMISTS.

Selling price, 3/6 per bottle.

I WILL DELIVER YOU, CARRIAGE PAID,

6 Bottles on receipt of P.0.0. for 15/6,

GIVING YOU A PROFIT OF 5/6 ON THE TRANSACTION.

OR I WILL DELIVER YOU, CARRIAGE PAID,

12 Bottles on receipt of cheque for 30/-,

GIVING YOU A PROFIT OF 12/- ON THE TRANSACTION.

BUY NOW, AND GET YOUR PROFIT BEFORE THE CUTTING BEGINS; THAT ALWAYS FOLLOWS AN ADVERTISED ARTICLE.

"ASPINALL'S NEIGELINE" will be largely advertised.

ONLY ADDRESS-

EDWARD ASPINALL, Gresse Street Works, LONDON, W.

# SYR. HYPOPHOS. CO., FELLOWS

CONTAINS THE ESSENTIAL ELEMENTS of the Animal Organisation-Potash and Lime;

THE OXIDISING AGENTS—Iron and Manganese;

THE TONICS—Quinine and Strychnine;

- AND THE VITALISING CONSTITUENT—Phosphorus: the whole combined in the form of a Syrup with a SLIGHTLY ALKALINE REACTION.
- IT DIFFERS IN ITS EFFECTS FROM ALL ANALOGOUS PREPARATIONS, and it possesses the important properties of being pleasant to the taste easily borne by the stomach, and harmless under prolonged use.
- IT HAS GAINED A WIDE REPUTATION, particularly in the treatment of Pulmonary Tuberculosis, Chronic Bronchitis, and other affections of the respiratory organs. It has also been employed with much success in various nervous and debilitating diseases.
- of which the energy of the system is recruited.
- enters directly into the circulation with the food products.
- The prescribed dose produces a feeling of buoyancy, and removes depression and melancholy; hence the preparation is of great value in the treatment of mental and nervous affections. From the fact also that it exerts a double tonic influence, and induces a healthy flow of the secretions, its use is indicated in a wide range of diseases.

### NOTICE-CAUTION.

- The success of Fellows' Syrup of Hypophosphites has tempted certain persons to offer imitations of it for sale. Mr. Fellows, who has examined samples of several of these, FINDS THAT NO TWO OF THEM ARE IDENTICAL, and that all of them differ from the original in composition, in freedom from acid reaction, in susceptibility to the effects of oxygen when exposed to light or heat, IN THE PROPERTY OF RETAINING THE STRYCHNINE IN SOLUTION, and in the medicinal effects.
- As these cheap and inefficient substitutes are frequently dispensed instead of the genuine preparation, physicians are earnestly requested, when prescribing the Syrup, to write "Syr. Hypophos. FELLOWS."
- As a further precaution, it is advisable that the Syrup should be ordered in the original bottles (4/- or 7/-); the distinguishing marks which the bottles (and the wrappers surrounding them) bear can then be examined, and the genuineness—or otherwise—of the contents thereby proved.

WHOLESALE AGENTS-

BURROUGHS, WELLCOME & CO., SNOW HILL BUILDINGS, LONDON, E.C.

# CAPSULE

McKesson & Robbins: Originated 1870: New York.

### WHY SHOULD THE "McK. & R." PILLS BE PRESCRIBED?

- 1. Because they are prepared from materials of the highest | quality only.
- 2. Because they are made according to the B.P. or other Standard Authorities, and therefore all the combinations are well tried and of recognised value.

  3. Because they are taken pleasantly—being tasteless—and
- readily, being ovoid in form.
- 4. Because they are not subjected at any stage of preparation to the injurious action of heat.
- 5. Because the coating of pure transparent gelatine preserves the contents from oxidation.
- 6. Because they are always soluble, and the contents soft and quickly disintegrated.

### CAPSULED PILLS

ľ	LIST OF PRINCIPAL	L CAPSULE
ı	Alees, all the B.P. combinations 5 gr.	Laxative, Vegetable-
I	Alees, Lilnte (Dr. Hall Dinner Pill) 4 gr. Alees Barb.   Pulv. Ext. Glycyrrh.	Res. Podoph.
ı	Alees Barb. Pulv. Ext. Glycyrrh.	Ext. Hyoscy.
I	Saponis Pulv. Theriaca, as 1 gr.	Ext. Tarax, as 1
1	Aless and Nnx Vemica-	3Fanna 701-1-212-
ı	Alees Sec 1½ gr.   Ext. Nnels Vom ½ gr.	Meroury, Biniodide
1	Alein	Meronry, Proto-lodide
ł	Aloin, various combinations.	N.B.—Made from th powder, free from mero
I	Auti-Dyspepsia (Fethergill)—	Sc-oalled "green" pre
ı	Stryohnins 1 gr. Pulv. Ipecae. 2-3 gr. Pulv. Piper Nig. 1 gr. Ext. Gent. 1 gr.	Mercnry with Chalk
ı	Arssnions Acid	Morphine Muriate
I	Asafætida, U.S. and B.P	Nitro-Glyoerine
I	Atropine 1-100, 1-300 gr.	Opium
1	Blue Pill, B.P 1, 2, 3, 5 gr.	Opinm and Campher
ł	Blue Pill, with Coleoynth and Hyosoyam 5 gr.	Opii Puly.
1	Calcium Sulphide 1-10, 1-4, 1-2, 1 gr.	Pepsin, Pure
ĺ	Oalemel, Coleoyn., and Hyoso 5 gr.	Phesphorus
ŀ	Calemel Co., B.P	N.BIn ne kind
ı	Camphor and Hyosovam	N.B.—In ne kind "McK. & R." method b
1	Camphore. Ext. Hyescy., āž 1 gr.	No other brand of Phos
ł	Cannabis Indioa 1-4, 1-2 gr.	administration of the u
ļ	Cascara Eagrada 3 gr.	Phosphorus and Iron- Phosphor. Pur 1-
ı	Oathartie Comp., U.S.P.	Phosphorus, Iron, and Quin
ı	Ext. Jalap 1 gr. Hyd. Snbohler 1 gr.	Phosphor. Pur 1-1
I	Ext. Jalap	Quininæ St
١	proved by taking a dose of these.	Phosphorus and Nux Vomi
1	Celceynth Comp., B.P 4, 5 gr.	Phosphor. Pur 1-
ı	Colocynth, other combinations,	Phosphorus and Quinine-
l	Copaiba Compound-	Phosphor. Pur 1-
ĺ	Onbeber Pnlv 2 gr.   Mass. Cepaib 1 gr. Ferri Sulph. Exsio 1-2 gr.   Tereb. Venet 1 1-2 gr.	Phosphorus and Valerianat Phosphor. Pur 1
Į	Ferri Mulph. Exsic 1-2 gr.   Tereb. Venet 11-2 gr.	Piorotexin
1	Cerresive Sublimate 1-30, 1-20, 1-10 gr.	Pedephyllin
١	Oroton Oil 1-2 gr.	Quinine, Bisulphate
١	Dinretie-	Quinine, Sulphate
I	Rxt. Buokn, Potass. Nitrat 1 gr. Soillæ Pulv 1-2 gr.	Quinine Co. (Anti-Malarial)
I	Immsnagoguo-	Largely prescribed in A
i	Ferr. Sulph. Exsic 11-2 gr.	Rhubarb Comp., B.P.
1	Thus, American 11-2 gr.	Rhnbarb with Blue Pill
١	Aloes Socot 1-2 gr.	Salicylic Acid
į	N.B.—Each Pill = 30 gr. ergot or 30 ms. fl extract. This form is more reliable and uniform in effect and more agreeable	Soap Comp., B.P.
1	form is more reliable and uniform in effect and more agreeable	Squill Comp., B.P
ı	than the liquid preparations.	Strophanthus
H	Inenymin 2. 3 gr.	Stryohnine
ı	Iedeform and Iodoform with Iren 1 gr.	Tenic Laxative (Fothergill
ı	Ipecac. 1-4, 5 gr.	
	Ipecao. Oe	Quininæ Sulph
	Ipenac. and Squill, B.P 5 gr.	Valerianates, Iron, Quinine
	Iron Pill, B.P. Add 3. 5 or.	Warburg's Tinoture and th
	Iron Arseniate	Each Pill = 1 fl. drm.
	Irem rednoed by Hydrogen (Quevenne)	Zinc Phosphide
	Iren and Quinine Oitrate 2 gr.	Zino Valerianate

Laxative, Vegetable-		
	Ext. Colee, Co 1 gZ	
Ext. Hyoscy.	Jalapse	
Res. Podoph. Ext. Hyoscy. Ext. Tarax, is 1-4 gr.	Res. Leptand. 44 1-2 gr. Ol. Menth. Pip.	
Meroury, Biniodide	1-16 gr.	
Meronry, Preto-iodide	1-20, 1-16, 1-8, 1-4 gr.	
N.B.—Made from the absolu	tely pure vellow impalpable	
powder, free from mercury and	from biniodide. contains uncembined mercury.	
	1 st.	
Mornhine Murieta	1-8, 1-4 gr.	
Nitro-Givoerine	1-200, 1-100, 1-50 gr.	
	1 gr.	
	1 gr.	
Opii Pulv 1 gr.	Camphors 2 gr.	
Pensin, Pure	1 ##.	
Phesphorus	1-100, 1-50, 1-30 gr,	
N.BIn no kind of Pill	are the advantages of the templified or more in request.  Pills is equally reliable for the	
"McK. & R." method better ex	emplified or more in request,	
No other brand of Phosphorns administration of the unoxidise	Pills is equally reliable for the	
Phosphorus and Iron-	d maniosment.	
Phosphor. Pur 1-50 gr.	Ferr. Redact 2 gr.	
Phosphorus, Iron, and Quinine-		
Phosphor. Pur 1-100 gr.	Ferri Carb 1 gr.	
Quininæ Sulph	1 gr.	
Phosphorus and Nux Vomica— Phosphor. Pur 1-50 gr.	Ext. Nuois Vom 1-4 er-	
Phosphorus and Quinine-	224 21400 7040 4040 2 7 840	
Phosphor. Pur 1-50 gr.	Quininæ Sulph 1 gr.	
Phosphorus and Valerianate of Zin	0—	
Phosphor. Pur 1-50 gr.		
	1-80 gr.	
Pedephylin	14 19 1 9 7 4 5 gr.	
Quinine, Bisulphate	1-4, 1-2, 1, 2, 3, 4, 5 gr. 1-4, 1-2, 1, 2, 3, 4, 5 gr.	
Quinine, Suiphate	1-7, 1-2, 1, a, U, 7, U Et	
Largely prescribed in America	with expellent results	
	5 gr.	
	5 gr.	
Soan Comp., B.P.	5 gr.	
	5 gr.	
Strophanthus	1-20, 1-4 gr.	
Stryohnine	1-50 gr.	
Tenic Laxative (Fothergill)-		
Quinine Sulph 2-3 gr. Stryohn 1-30 gr.	Ferri Redaot.	
Stryohn 1-30 gr.	Ext. Bellad., az 1-4 gr.	
Valerianates, Iron, Quinine, and Zinc.		
Warburg's Tinoture and the same		
Each Pill = 1 fl. drm. of the T	inoture.	
Zinc Phosphide	1-4, 1-2 gr.	
Zino Valerianate	1 gr.	

Special Combinations of 3,000 or more Pills made and Capsuled to order for Hospitals, &c., at Special Quotations.

London Agency: -Messrs. S. Maw, Son & Thompson, 7 to 12 Aldersgate Street, H.O. ALSO SUPPLIED BY

MESSES. BURROUGHS, WELLOOME & CO., Snow Hill Buildings, London, E.C.; MESSES. GRIMWADE, BIDLEY & CO., 7 Union Court, Old Broad Street, London, E.C.

# JOHNSON, MATTHEY & CO., LIMITED.

Telephone No. 6568.

### **HICHEST AWARDS:**

LONDON, 1851, 1862, 1865.

PARIS, 1855, 1867, 1878, 1889.

DUBLIN, 1865.

VIENNA, 1873.



A.B.C. and A1 Codes. Telegrams:

"MATTHEY," London.

AMSTERDAM, 1869.

CHICAGO, 1893.

For Metallurgical and Chemical Products, and for Platinum

Manufactures.

# NITRATE SILVER, CHLORIDE GOLD, CAUSTICS, CHEMICALS, LABORATORY AND ASSAYING APPARATUS, &c.

REFINERS OF GOLD, SILVER AND PLATINUM, ASSAYERS AND METALLURGICAL CHEMISTS.

MANUFACTURERS OF PLATINUM APPARATUS.

### HATTON

GARDEN,

LONDON.

From British and Colonial Druggist.

January 5, 1894.

"It is one of the best text books we have met with. A few copies of this little work will prove no dead stock to those who deal in photographic materials, and if introduced to the inquiring amateur its sale will probably obviate much of the loss of time and patience incurred in asking and answering questions upon elementary matters. The price is one shilling.

# PRACTICAL PHOTOGRAPHY

FOR

### AMATEURS.

Crown 8vo. Cloth. PRICE 1s.

Trade Discount 25%.

From Chemist and Druggist.

March 10, 1894.

"Messes. Barclay & Sons, of 95 Farringdon Street, have published a 'Practical Photography for Amateurs' which our expert says is complete, practical, and well up to date. It deals with the choice of apparatus, chemicals, development, thevarious printings, hand cameras, and all other details of the art; and in an appendix is added a valuable collection of formulæfor developers suited to all the leading makes of dry plates."

BARCLAY & SONS, LIMITED, 95 FARRINGDON STREET, LONDON, E.C.

## TO CHEMISTS & PHOTOGRAPHIC DEALERS.

GEORGE HOUGHTON & SON'S

### 1894 PRICE LIST

OF PHOTOGRAPHIC APPARATUS AND MATERIALS

(280 pages, over 400 illustrations),

POST: FREE: ON APPLICATION WITH TRADE CARD.

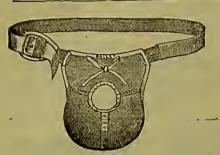
89 HIGH HOLBORN, LONDON, W.C.

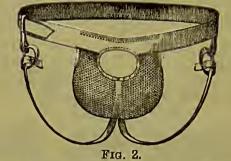
89



## GREAT SUCCESS!! BAILEY'S SUSPENSORY BANDAGES.

SYSTEM.





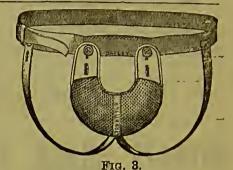


Fig. 1.

Cabinet of 2 dozen assorted, 30/-

USUAL DISCOUNT.

### TESTIMONIAL.

The Foregate, WORCESTER.

GENTLEMEN, -Please repeat our last order for "Suspensory Bandages." We think your idea of arranging the sizes and qualities by the use of numbers and letters a very excellent one, as it is most convenient to the Chemist in ordering, and we find our customers make use of your method. It brings us many repeat orders.

Yours faithfully,

ANDERSON & VIRGO.

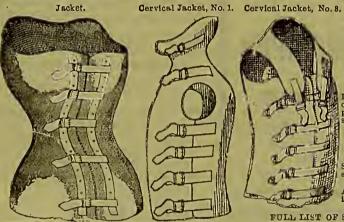
ANTERIOR

AND POSTERIOR KLBOW.

### W. H. BAILEY & SON, Y & SON, 38 OXFORD ST., TELEGRAPHIC ADDRESS - "BAYLEAF LONDON."

COCKING'S ADAPTABLE PORO-PLASTIC JACKETS AND SPLINTS.

Patentee and Sole Manufacturer, J. T. COCKING, PLYMOUTH.



JACKET (In eases of slight deformity). INSTRUCTIONS Gireumference at axilla.

Walst.

" walst.

" hips.

Length from axilla to great
trochanter.

In severe angular cases, circumference over apex of curve,
position of ditto, and contour
should be given; in lateral cases
a description of the case.

In all cases it must be stated
if for male or female.

CERVICAL LACKETE FOR MEASUREMENT.

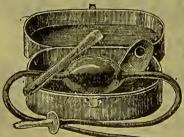
CERVICAL JACKETS.

Same measurements required and circumference at neck, and length from neck to axilla. Any part of the Jacket can in the process of manufac-ture be left soft.

FULL LIST OF SPLINTS AND PORO-PLASTIC IN SHEETS MAY BE HAD ON APPLICATION.

### CO.





Enemas & Hydrostatic Douches,

No. 571a.—Enema Douche, for hanging or standing up, consisting of two-pint Bronzed Canister, fitted with 6-ft. best Black Tubing, Vulcanite Stopcock, Rectum and Vaginal Tubes to plug on, in a card box (as Fig. 571) 3/- each.

No. 571.—Ditto, the same, but with 3-pint Canister, 3/2 each.

573.—Ditto, the same, but with 5-pint Canister, 3/7 , 574.—Ditto, the same, but with 8-pint Canister, 4/3 , 574.—Ditto, 3-pint Bronze Canister, fitted with 6-ft. Grey Tubing, Vulcanite Stopcock, and Glass Vagina Pipe (a Cheap Line), 2/3 each.

No. 568.—Ditto, Family Syringe, all Rubber, 1 quart, with 6 Vulcanite Jets, 8/9 each.

No. 570.—Ditto, for Travelling, to close in hinged Bronze Case, 5/3 each.

Subject to usual Discounts.

Subject to usual Discounts.

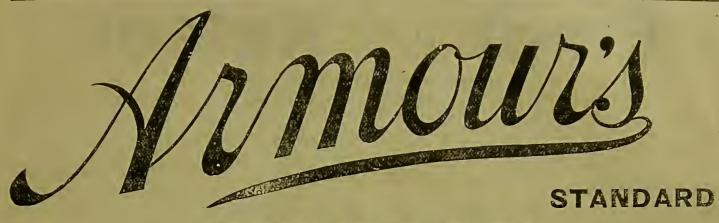
Country Buyers are invited to inspect our New Show-rooms.



CAN DOUCHE.-No. 571.

No. 553a. Enema. - Schutze's Seamless, in one continuous piece, no motal joints - the best in the market - Black, Red, or Green, complete in oval boxes, as illustration. Per doz., 29/-.

ALL OTHER PATTERNS KEPT IN STOCK. Decial Torms to Large Buyers 36a ALDERSGATE STREET, LONDON, E.C. "Telegraphic Address\_And Shippers on application." 360 ALDERSGATE STREET, LONDON, E.C. "ODORATORS LONDON,"



# PEPSIN

Insoluble Powder, Soluble Powder, Granules or Scales, in original bottles, containing 1 oz., 4 oz., 8 oz., or in 1-lb. tins, is absolutely guaranteed 3,000 test U.S.P. 1890,

or,

5 times B.P. strength.

### NOTE.

Attention is asked to the fact that a Pepsin answering the B.P. test will digest between 500 and 600 grains of egg albumen by the U.S.P. (6 hours) test. The claim made for some brands that they exceed B.P. strength by multiples of 10 is therefore evidently erroneous and misleading.

Chemists are asked to test "ARMOUR'S" against other makes, and samples will be gladly sent for that purpose.

### Armour's

### Glycerole Pepsin.

A permanent Glycerine solution of great convenience and economy for dispensing purposes.

10m. = 1 grain of Armour's = 5 grains Pepsin B.P.
In 1-lb. bottles, W. quarts, and S-lb. jugs.

### Advertising Matter

Of an attractive nature supplied on request, including showcards and leaflets bearing Chemist's name and address.

### Special Note Cases

For Medical Men supplied free.

ARMOUR & CO., 59 Tooley St., London, s.E.

# Emol

(TRADE)

# Keleet.

# A Remarkable Discovery for Skin Treatment.

EMOL-KELEET is a purified natural, emollient, absorbent, dusting powder, of impalpable texture, as soft as down to the touch. It in no way resembles the ordinary and unstable compound astringent or starchy absorbent powders.

Chemically, Emol-Keleet may be said to be closely allied to superior qualities of Fullers' Earth, yet it is quite distinct from the usual varieties of that substance, in that it contains a considerable percentage of Steatite (known commonly as soap stone), as well as of Silica, Alumina, traces of Calcium Salts, and an appreciable trace of Ferrous Oxide.

The delicate flesh-pink tone of Emol-Keleet—one of its much-admired characteristics—is due to the presence of Ferrous Oxide, while its soft silky feel is largely occasioned by the presence of Steatite.

Emol-Keleet, though comparatively new to the medical profession, has been known for some little time to a limited circle, and has been the subject of investigation by competent hands, both chemico-technicologically and therapeutically;



but it was not brought specially to the attention of the profession until the meeting of the British Medical Association, at Newcastle-on-Tyne, 1893, when an exceedingly interesting paper was read during the session of the Dermatological Section, by the President, Dr. Allan Jamieson of Edinburgh. The interest aroused by the

therapeutic notes given in his paper by this distinguished authority on skin diseases, brought Emol-Keleet prominently into view, and a brief recapitulation of the points of the paper referred to may be useful.

It was shown that as dusting powder, Emol-Keleet. a perfectly innocuous and inoffensive material, is therapeutically superior to any previously known. When placed upon the tongue—one of the simplest and yet most severe tests as to utter impalpability which can be applied to a powdered substance—there was an entire absence of any sensation of grittiness.

It was noticed also, as a remarkable property of this powder, that when a small quantity, say a teaspoonful or so, was added to a basinful of hard water—such as one frequently meets within limestone areas—it effected an immediate softening influence. Used in this manner with warm water, Emol-Keleet acts as a natural soap, cleansing the skin thoroughly, and at the same time leaving it soft and smooth.

The learned President pointed out as evidence of the activity and effect of this compound that the workmen engaged in its purification found that their previously horny palms became so much softened by continued contact with it, that they could not use their hands for rough work without incurring severe friction. This fact led Dr. Jamieson to try the effect of Emol-Keleet upon horny accretions encountered in some states of keratosis of the palms and soles. When mixed with water to the consistence of a paste, and painted on pretty thickly-evaporation being prevented by covering the whole area with oiled silk, gutta-percha, or other impervious tissue—it was found that the epidermal masses became softened and loosened, and could actually be peeled off painlessly, eventually leaving the part so treated soft, smooth, and of a natural pinkish hue. In view of this experience, it is probable that Emol-Keleet will have a very wide sphere of usefulness in the treatment of many skin affections both local and constitutional, for it possesses many qualities which will be highly appreciated by dermatologists.

Used as an ordinary dusting powder, it was found to possess anti-pruritic properties, and relieved very markedly the itching of the skin now and then complained of in urticaria or during the eruptive period of measles. The absorbent qualities of Emol-Keleet, with its mild astringent tendency, stamp it as a perfectly harmless and absolutely unequalled dusting powder.

In moist or weeping conditions of the epidermis, such as one encounters so often in eczematous or erythematous affections, the application of Emol-Keleet is followed by beneficial effect. From the dermatologist's point of view Emol-Keleet is a most useful addition to the list of remedial agents used in the treatment of cutaneous diseases.

During the recent vaccination (June, 1894) in Edinburgh, it was found that Emol-Keleet, on being applied to the part innoculated, afforded immediate relief by its soothing and emollient influence.

Supplied to the trade at 8/6 per dozen boxes. Retail price 1/- each.

BURROUGHS, WELLCOME & CO., MANUFACTURING CHEMISTS,

LONDON—Snow Hill Buildings.

NEW YORK—Rhinelander Building, Rose & Duane Streets.

MELBOURNE—456 Collins Street West.

PARIS—Pharmacie Centrale de France.
BRUSSELS—Chas. Delacre & Co.
VIENNA—The Feld Apotheke, M. Kris (Provisor), Stefanspiatz 8

Cable and Telegraphic Rid ess - BURCOME LONDON."

# The Chemist & Druggist SUPPLEMENT.

Businesses Wanted Businesses for Disposal Premises to Let Auction Sales

SATURDAY, AUGUST 25, 1894.

Partnerships Situations Vacant Situations Wanted

A Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

### ADVANTAGES

Of advertising in this Supplement should be kept in mind by Transfer Agents, and Valuers; by Wholesale Houses and Contract Agencies; by Pharmacists desirous of selling Businesses, or of buying them; by those who want Assistants, or who are seeking Situations. For all such it is the medium which gives the smartest results, and its unique method of circulation has secured for it a surprising popularity. Space for displayed advert sements can be obtained on application to the Publisher, 42 Cannon Street, London, E.C.

## CHEMISTS' TRANSFERS.

## MESSRS. ORRIDGE &

CHEMISTS' TRANSFER AGENTS.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

The business conducted by Messrs. Orridge & Oo. has been known as a Transfer Agency since the year 1846, and is well known to all the leading firms in the Trade. VENDORS have the advantage of obtaining an opinion on value derived from extensive experience, and are in most cases enabled to avoid an infinity of trouble by making a selection from a list of applicants for purchase, with the view of submitting confidential particulars to those alone who are most likely to possess business qualifications and adequate means for investment. PURCHASERS who desire early information regarding eligible opportunities for entering business will greatly facilitate their object by describing clearly the class of connection they wish to obtain.

1.—£1,400.—LONDON, S.W.—High-class Dispensing and Retail Business; returns average about £1,400 yearly; gross profit about half; capital business premises, situate in good position; single-fronted shop, well-fitted and stocked; price required £1,400.

2.—£700.—LONDON SUBURB (South).—Good-class Retail and Dispensing Business; returns nearly £700 yearly; net profit £243; convenient house; low rent; price £500.

3.—£450.—LONDON, N.—Dispensing and Retail Business; returns nearly £500 yearly. with very good profit; comfortable house and good working stock; full investigation invited; about £400 required.

4.—£500.—LONDON, E.—Death vacancy: very profitable Business situate in a good business locality; returns £500 yearly; well-fitted shop and good stock; house in good repair, contains nine rooms and shop; very moderate terms to an immediate purchaser; good Prescriber wanted.

5.—£700.—LONDON, S.—Situate in a main road; ready-money Retail Dispensing and Prescribing; prominent position; well-fitted shop and good stock; returns about £700 yearly, chiefly by an Assistant; vendor having another engagement will accept a very moderate amount.

6.-£400.- LONDON, near.—Old established business, Dispensing and Retail; returns about £400; very profitable; small but convenient house; low rental; business carried on by Assistant; can easily be increased; about £200 required.

7.-£800.-LONDON, E.-Busy locality; Dispensing and Prescribing Business; returns £700 to £800 yearly; profits about half; comfortable honse and garden; shop well fitted, managany and plate glass; price about £500.

8.—£1,900.—WALES.—Dispensing and Retail, with Wine and Spirit trade; established many years; returns between £1,800 and £1,900 last year, with excellent profits; very good house, garden, &c.; rent very moderate: price about £1,350, to be arranged.

9.—£1,500.—NORTH MIDLANDS.—Dispensing, and Retail Business of good class; held by vendor over 20 years; average returns about £1,500; very profitable; very handsome shop and good stock; good business premises; price about £1,600, to be arranged.

10.—£1,000.—SUSSEX.—Rural district, nnopposed Business; returns £1,000 yearly; very profitable; all Light, easily-worked trade; comfortable house; about £700 required; a considerable addition to the business can be made.

11.—£1,250.—ESSEX.—Easy distance of town; capital position for pushing business; situate in the centre of market-place; old-established Business; Mixed trade; returns £1,200 to £1,250. all good prices; good sized shop; large house and large garden, &e.; price between £,1000 and £1,100.

12.—£600.—CHESHIRE.—Good sized town: good middle-class Business; returns £600 last year; very good profits; good 8-roomed house: rent low; vendor will make a sacrifice to effect an early sale; about £400 only required.

13.—£500.—HANTS (near Southampton).—Retail Business; established about 6 years; returns nearly £500 last year, with very good profit; well-fitted shop; 6-roomed house and shop; low rental; price £300.

14.—£350.—OXFORDSHIRE.—Death Vacancy.—Small Retail and Dispensing Business, with Post Office; returns between £300 and £350; very well-fitted shop and good stock; must be sold; price very moderate.

### Particulars of any of the above will be furnished on application N.B.-NO CHARGE TO PURCHASERS.

Particulars free on application. Persona advice, where required, free. Other Businesses, Town and Country. Personal applicants receive Messrs. O. & Co.'s direct attention and

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION.

Messrs. Orridge & Co. invite communications from COLONIAL and FOREIGN firms where business of a confidential nature requires the especial attention of a London Agent.

**SPECIAL NOTICE.**—Messrs. ORRIDGE & CO. have a large number of Businesses for Sale, suitable for Gentlemen with Small Capital, from £200 to £500.

ORRIDGE & CO., 32 Ludgate Hill, LONDON, E.C.

Valuer, 60 St. Stephen's Road, LEIGESTER.

References to principal London and Provincial Wholesale Houses, also to numerous clients throughout the United Kingdom.

numerous clients throughout the United Kingdom.

\*\*BUSINESSES THOROUGHLY INVESTIGATED FOR BUYERS. 20 YEARS' EXPERIENCE.

NO CHARGE TO BUYERS.

STOCKTAKING UNINCESSARY.—Stocktaking is always dreaded by Chemists, and with a competent Valuer is not necessary.

F. J. Brett is prepared to estimate or to value entire stocks as they thand with little or no inconvenience to ordinary business, and has repeatedly done so with entire satisfaction to those adopting this mode.

STOCKS AND FIXTURES BOUGHT FOR OABH

£1,400 returns.—Pleasant Midland town; good house; dolarable locality; best position; small goodwill and valuation.—£1,750 returns.—YORKS.

Good Conutry Retail, with Wines, Spirits, Alc, &c.; net profit over £500; goodwill £150, valuation about £700.—£500 returns.—LONDON.—Net profit more than half; price £400; trial allowed.—£650 returns.—N.—Good-class Retail, in improving part; good house; rent £40, lease; price £425.

CHEMISTS' TRANSFER ACENTS AND VALUERS,

**JEWRY** STREET, ALDGATE, E.C. 30 Established 1870.

NOTICE TO VENDORS.

Having been for the past 23 years solely engaged in the Sale, Purchase, and Valuation of Chemists' Businesses, we have, as Transfer Agents and Valuers, the largest experience of any in the Trade. Vendors placing their businesses in our hands for transfer may in all cases rely upon a speedy sale being effected without undue publicity. Terms forwarded post free on application. No sale, no charge.

BUSINESSES WANTED.

### NO CHARGE TO PURCHASERS.

1.—TWENTY MILES OUT.—Good-class Retail, Dispensing, and Prescribing Business, combined with Wines and Spirits; returns £2,500; present hands 41 years; retiring; price £1,600; valuation terms arranged;

present hands 41 years; rechning; price £1,000; valuation terms arranged; part could remain.

2.—HOME COUNTY.—First-class Retail and Dispensivg Business, occupying splendid position in rising town; net profit about £400 after paying all expenses; price £900; personally inspected.

3.—SOUTH COAST.—Good-class Retail and Prescribing Business; returns nearly £500; rent £25; good house, garden, greenhouse; price £300, or valuation of stock and fixtures.

4.—KENT (14 miles from Town).—Unopposed Retail, Dispensing, and Prescribing Business; rent £35; good house and garden; returns over £600; very profitable; good position; price £500.

5.—WEST OF ENGLAND.—Retail and Prescribing Business; returns £600; low rent, ou lease; excellent house, large garden; shop well fitted and stocked; price £400, or offer.

6.—LONDON, S.E. (10 miles out).—Retail and Prescribing Business; returns £6 week under management; low rent; good house and garden; price £200; £50 cash would be accepted.

7.—LONDON SUBURB.—Partner required in a large and increasing Business, with view to succession in few years; about £300 required for half-share; good income.

### VALUATIONS.

SPECIAL ATTENTION is paid to Valuations, which are personally conducted by a member of the firm, in any part of the United Kingdom. Our terms, which are moderate, may be had on application.

Berdoe & Co., 80 Jewry Street, Aldgate, E.C.

Chemists' Consultants, Transfer Agents, and Valuers,

### 9 NEW CANNON ST., MANCHESTER,

Forty-four years' experience, during which period they have transferred, valued, or arbitrated over 1,000 Businesses.

USINESS WANTED.—Thomas Tomlinson & Son, having on their books an extensive list of gentlemen who have entrusted thom with commissions to look up a good genuine Business, intending sellers can rely upon being at onco, with all despatch, put into communication with bond fide buyers without publicity and the annoyance of answering "ouriosity" applications. No charge made unless Sale is effected.

Businesses for disposal at Bradford Stanford Toward, Worsester Dowley.

Businesses for disposal at Bradford, Stamford, Torquay, Worcester, Derby, Preston (2), Maneliester (3), Boston, Pembroke Dock, Cleethorpes, Wakefield, Scarborough, Barnsley, Blackburn, Wolverhampton, Newton Abbot, Bury, Cheshire, Paddiugton, York, Croydon, Bradford (Botanical), Oldham, Liverpool (2), Acerington, Horwich, Redditch, Huddersfield, Skipton, Sheffield, Southport; also a good Dental Practice iu Yorkshire.

NO CHARGE TO PURCHASERS.

Telegraphie Address—"TOMTOM,"

IAM JUDD and Mr. ADFRED MANNERS,

Frade Valuers, Transfer Agents, and Accountants,

Valuations made for Probate or Transfer, Books Audited and Balance Sheets prepared in any part of the United Kingdom.

RÉ W. WRIGHT, CHELMSFORD, ESSEX.

We are iustracted to invite offers for this well-known, old-established Business; returns average over £3,000 yearly; net profits over £800 yearly; full particulars and orders to view upon application.

MIDLANDS.—Ocountry Retail and Dispensing Business, in pleasant market town in the Severn Valley; returns £1,200; price £1,000.

SOUTH WALES.—Good class Dispensing Business, with Wine and Spirit trade; returns £1,800; price £1,300 or offer.

LANCASHIRE.—High-class Retail and Dispensing; returns £1,460; flue, handsome pharmacy and valuable stock.

flue, handsome pharmacy and valuable stock NO CHARGE TO PURCHASERS, tions a Specialty. Terms on application.

Valuations a Specialty.

### BUSINESSES FOR DISPOSAL

3s. 6d. for 50 words; 6d. for every 10 words beyond.

I 2 MILES North of London.—Returns £650, increasing daily; no opposition; price £425; rent £25; Dispeusing and Light. Apply, "Omega," Office of THE OHEMIST AND DRUGGIST, 42 Cannon Street, E.O.

BIRMINGHAM.—A very profitable Light Retail and Prescribing Business, in suburb; present net returns £450; cash price £250. Apply, "Pharmacist," c/o R. Tomlinson & Sous, Bond Street, Birmingham.

**WELL-ESTABLISHED** Business for Sale, in best part of Rye Lane, Peckham; largo shop, well fitted and stocked, good house, and large garden; loug lease, at low rental. Rogers, Chemist, 108 Rye Lane, S.E.

RANCH Business to be Sold in the West of England; stock and nxtures at valuation only to effect a quick sale; a genuine affair. Apply to X. Y. Z., Office of THE CHENIST AND DRUGGIST, 42 Cannon street, E.O.

ONDON, near Charing Cross; returns about £400, capable of considerable increase; rent 18s. weekly, no rates or taxes; well situated; best fittings; price £260. Apply, R. C., Wright, Layman & Umney, Southwark Street, S.E.

FOR Sale, a half share or interest in a first-class old-established Wholesalo and Retail Ohemist and Druggist's Business and Pharmacy in South Africa. For particulars apply to Messrs, S. Maw, Son & Thompson, 7 to 12 Aldersgate Street, E.C.

WAKEFIELD.—For immediate disposal, a Chemist's Business, on account of declining health; good position; rent £35; valuation about £250; a good opportunity for a pushing, energetic young man. Apply, J., Mrs. Redfern, Mount Pleasaut, Wakefield.

FOR Sale, old-established Mixed Business; in present hands 27 years; owner retiring; price £300 or valuation; no goodwill; stock can be reduced if wished; well-fitted shop with plate-glass front; 7-roomed house; rent £20. Apply, W., Emery House, Boston, Lines.

SURREY.—Must sell, through ill-health; returns £400, good profits; good class Retail and Dispensing; attractive locality; good house, large garden; rent £30; half let off; energetic man double business; price £450. Apply C. D., c/o Mr. Raynor, Draper, Frant, Tunbridge Wells.

INDSOR.—Centre of best business street; a large old-established Retail and Prescribing Business, with Gilbey's Agency attached; good scope; long favourable lease; in present hands 40 years; vendor retiring. Apply to J. P. Boyce, Chemist, &c., Peascod Street, Windsor.

ARGATE.—For value of stock and fixtures only; about £220; an old-established Chemist's Business; proprietor relinquishing in favour of dentistry; long lease; centre of town; a splendid opportunity for an "up-to-date" young man. Apply, Mr. D. J. Poole, Estate Agent, Margate.

C HEMIST'S Business for sale; best part of a scatide town 50 minutes by rail from London; newly-fitted shop; stock all new; increasing trade; capital opening for a young man; satisfactory reasons for selling; price £600. 171/40, Office of The Ohemist and Druggist, 42 Oannon Street F.O. Street, E.O.

LONDON, S.E.-Dispensing and Rotail Business for immediate disposal; very nicely situated; shop well fitted; returns £400, increasing; all profitable business; vendor's sudden breakdown in health necessitates sale; price to be equitably arranged. "Statim," c/o Orridge & Co., 32 Ludgate Hill.

### BUSINESSES FOR DISPOSAL-Cont

SMART Pharmacy, in a lively London submrb, taking £9 a week cash, at good prices; the position for a quick trade; commanding premises; private entranco; price £425, long and valuable lease included, Wm. Ferguson, Valuer, 32 Charemont Square, London, N.

EVON, Coast.—First-class Retail and Dispensing Business; over 5,000 new prescriptions yearly; handsomely-fitted shop, well stocked; large convenient house, in thorough repair, and large garden; satisfactory reasons for selling; price £850. "Devonia," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

CHESHIRE.—Old-established Ohemlst's Business; handsomely-fitted shop; plate-glass counter from best year £617; capital position; nmin thoroughfare; price about £350; good house; rent £35. Address, 165/6. Office of THE CHEMIST AND DRUGGIST, 42 Oannon Street, E.O.

FIRST-CLASS Dispensing, Prescribing, Surgical (good), and General Retail Business for sale; best situation in a town of 40,000; owner retiring; valuation of stock and fixtures about £1,200; only bond-fide buyers need apply. For particulars write, 174/41, Office of THE CHEMIST AND DRUGGIST, 42 Canuon Street, E.O.

**LONDON**, E.C.—Brauch Business for sale, returning under assistant £8 weekly; improvements are being made in the locality which will greatly add to the value of the business; shop is well fitted and stocked; price £200, or offer; good opportunity. G. B., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LIGHT Retall and Prescribing Chemist's Business, in the best position of a good market-town in Middlesex; established nearly 40 years; in present hands 8 years; proprietor retiring; rent £32; price for goodwill, stock, and fixtures, £150, stock alone worth £300. Further particulars address, "Chemist," 20 High Street Uxbridge.

ANDSOMELY-FITTED Pharmacy, doing a good-class Light Retail, Dispensing, Prescribing, and Proprietary trade; very profitable; now much neglected; returning £800; a principal who can give his whole time can double; about one honr from Town. For particulars, address, "Aurantii," Horneastle's, 61 Cheapside, London.

A BARGAIN.—Nicely fitted Pharmacy and Drng Store in busy thoroughfare in Manchester; a bargain; £325 for stock and fixtures, worth £450; rent £38; returns at present £500, but will largely increase owing to traffic being diverted in this direction. Apply, "Alpha," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

DEATH VACANCY.—Chemist and Druggist's Light Retail and Dispensing, with Photographic business, for sale; old-established; situated in one of the main thoroughfares of a seaport town in the North of England; very good premises; sale on valuation. Apply, 166/4, Office of The OHEMIST AND DRUGGIST, 42 Cannon Street, E.O.

**SOUTHAMPTON.**—A thoroughly genuine Cash Business for Sale in this rising scaport; one of the best-fitted and attractive shops in the place; small fortune to a young pushing man; splendid house, garden, side entrance; returns nearly £500; price £300. Address, "Utopia," Office of The Chemist and Druggist, 42 Cannon Street, E.O.

#250 -Hampshire.- Unopposed Retail and Prescribing Business situated in a village; returns £7 weekly, full prices; very profitable trade; rent £25, good lionse and garden; vendor's own property; strict investigation allowed. For further particulars apply, "Rhei," Office of THE UHEMIST AND DRUGGIST, 42 Cannon Street, E,O.

AN old-established, ready-money Retail, Dispensing, and Prescribing Business; very profitable; in thickly populated district, W.; proprietor retiring; convenient pharmacy, well stocked; several proprietaries, having a good sale; returns £600; price £425; rent £42. "Spes." Office of The Chemist and Druggist, 42 Cannon Street, E.C.

£1,200. — First-class Retail and Dispensing Business, occupying an excellent position; very healthy locality, a few miles out of London; returns £1,325; full prices except few patents for cash; no competition; large house, low rent, long lease. "Kola," Office of The Ohemist and Druggist, 42 Cannon Street, E.O.

RANCH, handsomely-fitted and well-stocked; neglected; has done, nnder principal, £1,000; present return, £6 per week; good man can do £1,000; patents nearly nil; good-class trade; murketing neighbourhood; net rent, £24; good house; price £275, or valuation, to immediate purchaser; exceptional bargain. "Borax," 184 Dalston Lane, London, N.E.

FOR immediate disposal, Light Betail, Dispensing, and Photographic Materials; best position in large fashionable watering-place; 30-feet run plate-glass window; small sum down, and balance by easy instalments; fortune for beginner or single man; valuable Proprietaries; full introduction given. 174,40, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

SOUTH COAST.—A profitable easily managed Dispensing, Prescribing, and Retail Business, in fast growing suburb of fashionable watering-place, verging on lovely and populous country neighbourhood; present hunds 18 years; net profits over £300 per annum; capital opening for Dentistry; convenient house, in good repair; price £550. "Philip," Office of The Chemist and Druggist, 42 Cannon Street, E.C.

KENSINGTON.—Well-e-tablished Dispensing and Retail, in good neighbourhood; old family connection; fair cash trade; commanding premises, held on long lease, with good letting house and private entrance; stock, plant, fittings good and complete; large sum been spent on improvements and increase of stock during last two years; offers excellent opportunity for Chemist of ordinary energy who could live on the premises; satisfactory reasons for selling; books and details shown to bona-fide applicants. Address, "Mercator," Office of The Chemist and Druggist, 42 Cannon Street, E.C.

ENGLAND'S RIVIERA.—I have a bond-fide progressive Cash Dispensing, Toilet, Family Business for you on very easy terms, with Gilbey's Wine Agency and sale of Spirits available on October 10; few patents lightly ent; Dental, Photographic, Homocopathic and Cigars advantageously added; former wanted here; no dentist; Store adaptation would ensure unique trade; rent and all rates together only £31; excellent house and clean, small garden; near sea; bathing, bonting; main road, fine aspect; supreme winter climate; reasons for disposal are purely domestic; removing Notts. Write, Archer, St. Mary Church, Devon.

O-OPERATION wanted by Proprietor of old-established Chemist's Bushness ripe for conversion into popular Drug Stores; qualifications for Managers £250 in shares; subscribed capital to be expended in other businesses opening; satisfactory particulars to bond-pde applicants only. M., 16 Wylen Road, Honor Oak Park, S.E.

### PARTNERSHIPS.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

PARTNERSHIP.—Exceptional opportunity, in very old-established Business, at well-known English watering-place; £300 required for half-share; particulars given to none but principals. Address, "Seaside," Smith's Advertising Agency, 132 Fleet Street, London, E.C.

### FOR SALE.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

FOR Sale, first-class full-sized Chemist's Lamp; cost £20 with fittings; on offer; drawing sent on application. R., 72 New Briggate, Leeds.

FOR Sale, the handsome Mahogany Fixtures and Fittings, by Trebble, in the Chemist's shop, 71 Grainger Street West, Newcastle-on-Tyne; no reasonable offer refused. Apply on the premises, or to Wm. T. Allen, 14 Royal Arcade.

### TO LET.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

SHOP, large double-fronted; to be Let in main thoroughfare, with light dry basement; specially snitable for Store Chemists; new building. Apply, 34 Lamb's Conduit Street, W.C.

KINGSTON-ON-THAMES.—To Let, a splendidly situated, double-fronted shop and honse, and in one of the finest blocks in Kingston; good neighbourhood, near main road, 3 minutes from station; good opportunity for Chemists. Apply to A. O., 78 Richmoud Road, Kingston-on-Thames.

### APPRENTICESHIPS.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

CHEMIST'S Apprentice; outdoors; high-class business in very good position; business thoroughly taught; terms, 3 years; premium £30. Apply to R. P. Page, Ohemist, 69 Grove Road, Eastbourne.

### SITUATIONS OPEN.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

WANTED, qualified Manager, immediately; village business; salary 20s. weekly. References to Brown, 101 Whitecross Street, E.O.

WANTED, Assistant (indoors); aged about 24 years; Mixed business; no Sunday duty. George Exley & Son, 34 Hunslet Lane, Leeds.

TEMPORARY Assistant, as Dispenser; also an Improver or Apprentice; indoors. Particulars, apply Gibbs & Gurnell, Chemists, Ryde.

MMEDIATELY.—W. Bishop, Chemist, Grantham, requires (indoors) a good Junior Assistant; state age, height, and salary required; Churchman preferred.

WANTED, an Assistant (single), indoors, for Retail and Prescribing business; state age, references, and salary required. James Stevens, Chemist, Strood, near Rochester.

### SITUATIONS WANTED-Cont.

TEMPORARY or permanent; 8 years' experience; disengaged. 40 Antill Road, Tottenham.

PART-TIME (23); 6 years' London experience. "Studens," 22 Markham Square, Chelsea.

UNIOR: 6½ years' experience; disengaged; London preferred.

Moore, I Gowan Avenue, Fulham.

DISPENSER or Assistant, at once; 24; Hall qualification. "Chemious," 117 Westbourne Grove.

WHOI, ESAI, E: Wet Counter; experienced; good references. Downes, 27 Mnriel Street, Caledonian Road, N.

BRANCH Manager or Loeum; qualified; good experience; aged 36. "Statim,"11 Upper Lewes Road, Brighton.

SENIOR or Manager; 29; married, no family; Prescriber, Dispenser, and Counterman. D., 42 Gordon Street, Northampton.

DISPENSER: qualified: 23; outdoors preferred. "Menthol," Office of The Chemist and Druggist, 42 Cannon Street, E.C.

UNQUALIFIED: 26; competent; temporary or permanent; London and best-class country experience; outdoors preferred. R., Post Office, Wansford.

**LOCUM-TENENS** and Temporary Manager; country preferred; qualified; experienced; steady and reliable; highest references; disengaged September 3. "Extractor," 23 Florence Road, London, S.E.

WHOLESALE: Drys; energetic young man; 25; 10 years' experience with first-class firm; can wrap and mark thoroughly, Address, "Reliable," Office of The Chemist and Druggist, 42 Cannon

SOUTH OF FRANCE.—Engagement in a French Pharmacy for season desired by a qualified English Assistaut; slight knowledge of French. M. R. D., c/o Office of THE CHEMIST AND DRUGGIST, 42 Cannon

WANTED to apprentice a youth who has passed the Prelim, with a thoroughly respectable Chemist, where every facility for gaining a good knowledge of the business would be obtained. Apply, H., 241 Western Bank, Sheffield.

MANAGER; qualified; 16 years' experience, 5 as Manager; Preserved and Extractor (use gas); aged 31; height 5 ft. 7 in.; married; Southern counties or coast preferred. A. P. S., Shustoke House, Flamstead Road, Handsworth, Birmingham.

MPORTANT to Whoiesale Druggists.—Advertiser, having good - Wholesale and Retail experience, is desirous of ropresenting a London house on salary and commission; London and suburbs. Apply, 164/23, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

### MISCELLANEOUS.

Special charges are made for Advertisements under this heading, which can be obtained on application.

DENTAL SURGEON wishes to communicate with a Chemist with view to visiting at his establishment; town or S.W. district preferred; good opening essential; high commission or rent. Full particulars to "Dentist," 2 Park Villas, Park Road, Teddington.

RIGHT'S PURE DRUG COMPANY (LIMITED), 31 High Street, Clapham, S.W., will be glad to receive Lists and Quotations for Saleable Goods; but it is requested that representatives shall not call in any case except by previous appointment made by the Company.

FOR Sale, immediately, 12 ft. solid mahogany-fronted counter, the back full of drawers, 70s.; 12 ft. range mahogany drawers with shelving and lockers complete, £7 10s.; massive mahogany wall-case, with plateglass doors, 8 ft. long, £10; 5 ft. mahogany dispensing-screen, 70s.; one ditto, high-class, £5; 6 ft. bent-glass counter-case, £4 10s.; all equal to new; also the complete fittings of high-class shops; experienced fitters sent to all parts of the country; send for testimonials. Edwards & Co., 106 White-charal Livernool. chapel, Liverpool.

SOME NEW "MINOR" BOOKS.

By FREDERICK DAVIS, B.Sc.

Practical Volumetrie Analysis, containing in detail the whole of the Volumetrie Analysis of the British Pharmacopeia. Just published. Price 1/-; in limp cloth, t/6.

Qualitative Analytical Tables. A concise handbook adapted to the requirements of "Minor" Students. Price 1/-.

Practical Histological Botany, dealing with the Microscopical Work expected from the Pharmaceutical Student in his examin tion.

"Profusely Illustrated. In limp cloth. Price 2/-.

Post Free per return for P.O. or stamps, from the Publisher—

LOHN GOWER. 4 Tanging Boad Ealing LONDON

JOHN GOWER, 4 Lancing Road, Ealing, LONDON.
List of other "Minor" Publications Post Free on request.

This popular work treats of all the manipulative details involved in compounding medical prescriptions, special attention being given to dispensing difficulties, and to notes on new remedies.

> The Book contains 280 pages. Price 3s. 6d.; by post, 3s. 10d.

This work has been written for us by Mr. E. N. Alpe, of the Solicitor's Department, Inland Revenue Office, Somerset House, who has had a wide experience in, and intimate knowledge of, the administration of the Acts which regulate the sale of proprietary medicines.

The most recent modifications in the law and practice relating to medicine stampduty are incorporated in a Supplement which has been added to this work.

Contains 142 pages.

Price 2s. 6d.; by post, 2s. 9d.

## EXAMINATION.

2s.; by post, 2s. 3d.

For sale at 1s.

To Chemists, 8s. 6d. per dozen.

Published at the Offices of

CHEMIST AND DRUGGIST," 42 GANNON STREET, LONDON, E.G.